

Exhibit A to Catapult's Complaint

This Exhibit A specifically identifies, by number, all of the assets whose sale was publicly disclosed by BlackBerry in its January 2022 SEC filing. In addition, this Exhibit also refers generally and by category to two additional groups of U.S. patent assets that BlackBerry agreed to sell to Catapult. The specific assets in these two additional groups are not (yet) identified with any more specificity because they have not been publicly disclosed. Those two groups are: (a) approximately 500 U.S. patents and applications that were listed on Exhibit B-2 of the Catapult PSA; and (b) additional changes to the asset list that have occurred since January 2022 as a result of continuing “provisional applications, reissues, reexaminations, renewals, extensions, continuations, continuations in part, substitutions, divisionals, foreign or international counterparts and other applications, worldwide, with respect to any patents and patent applications listed on Exhibit A.” See Catapult PSA (definition of “Assigned Patents”).

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10055	10055-US-CIP	09/589728		6856654	Expired
10055	10055-US-PAT	08/929616		6104759	Expired
10062	10062-US-PAT	10/321313	2004/0113849	6812897	Granted
10072	10072-US-CIP	09/401868		6701378	Expired
10072	10072-US-CIP1	09/545963		6779019	Expired
10072	10072-US-CIP10	10/893455	2004/0252727	8060564	Expired
10072	10072-US-CIP2	09/545962		7209955	Expired
10072	10072-US-CIP3	09/649755		6463463	Expired
10072	10072-US-CIP4	09/761480	2001/0005864	6438585	Expired
10072	10072-US-CIP6	09/928983	2002/0049818		Abandoned
10072	10072-US-CIP7	09/827609	2002/0120696	7209949	Expired
10072	10072-US-CIP8	09/829178	2001/0054115		Abandoned
10072	10072-US-CIP9	09/925810	2002/0029258	7606936	Abandoned
10072	10072-US-CNT	09/782380	2001/0004744	6389457	Expired
10072	10072-US-CNT[40]	13/043903	2011/0202597	9298793	Expired
10072	10072-US-CNT[41]	13/301362	20120072512	8407305	Expired
10072	10072-US-CNT[42]	13/359586	2012/0131224		Abandoned
10072	10072-US-CNT1	10/151642	2002/0194285	7509376	Expired
10072	10072-US-CNT1(1)	11/300040	2006/0095525	7953802	Expired
10072	10072-US-CNT10	11/925780	2008/0046594		Abandoned
10072	10072-US-CNT11	11/925786	2008/0046527		Abandoned
10072	10072-US-CNT12	11/925846	2008/0059657		Abandoned
10072	10072-US-CNT13	11/925847	2008/0046530		Abandoned
10072	10072-US-CNT14	11/925791	2008/0045266		Abandoned
10072	10072-US-CNT15	11/925795	2008/0045193		Abandoned
10072	10072-US-CNT16	11/926370	2008/0261633		Abandoned
10072	10072-US-CNT17	11/926394	2008/0052409	9374435	Granted
10072	10072-US-CNT18	11/925803	2008/0109560	7734281	Expired
10072	10072-US-CNT19	11/925809	2008/0109530		Abandoned
10072	10072-US-CNT2	10/166857	2003/0018816	6941349	Expired
10072	10072-US-CNT2(1)	11/789670	2007/0288582		Abandoned
10072	10072-US-CNT20	11/925811	2008/0288604		Abandoned
10072	10072-US-CNT21	11/925813	2008/0288605	7779151	Expired
10072	10072-US-CNT22	11/925815	2008/0263224		Abandoned
10072	10072-US-CNT23	11/925816	2008/0046528		Abandoned
10072	10072-US-CNT24	11/925817	2008/0046529		Abandoned
10072	10072-US-CNT25	11/925818	2008/0044029		Abandoned
10072	10072-US-CNT26	11/925824	2008/0043694		Abandoned
10072	10072-US-CNT27	11/925827	2008/0046534		Abandoned
10072	10072-US-CNT28	11/925831	2008/0043675		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10072	10072-US-CNT29	11/925833	2008/0043676	8949456	Expired
10072	10072-US-CNT3	10/207418	2003/0005066	9344839	Granted
10072	10072-US-CNT3(1)	11/849785	2008/0077707	8024416	Expired
10072	10072-US-CNT30	11/925840	2008/0045253		Abandoned
10072	10072-US-CNT31	11/925842	2008/0046535		Abandoned
10072	10072-US-CNT32	11/925861	2008/0261632		Abandoned
10072	10072-US-CNT33	11/925866	2008/0045267		Abandoned
10072	10072-US-CNT34	11/925877	2008/0045194	8230026	Granted
10072	10072-US-CNT35	11/925883	2008/0046592		Abandoned
10072	10072-US-CNT36	11/926283	2008/0052365		Abandoned
10072	10072-US-CNT37	11/926312	2008/0109521	7689721	Granted
10072	10072-US-CNT38	11/926330	2008/0045268	7818033	Granted
10072	10072-US-CNT39	11/926355	2008/0051141		Abandoned
10072	10072-US-CNT4	10/671162	2004/0073619		Abandoned
10072	10072-US-CNT4(1)	11/925754	2008/0045216	8050661	Expired
10072	10072-US-CNT5	11/925755	2008/0043693	7685244	Expired
10072	10072-US-CNT6	11/925756	2008/0058013		Abandoned
10072	10072-US-CNT7	11/925763	2008/0046526		Abandoned
10072	10072-US-CNT8	11/925770	2008/0057964	8583744	Expired
10072	10072-US-CNT9	11/925775	2008/0046591		Abandoned
10072	10072-US-DIV	09/528495		6463464	Expired
10072	10072-US-DIV(1)	11/264237	2006/0069737		Abandoned
10072	10072-US-DIV1	09/782107	2001/0013071		Abandoned
10072	10072-US-DIV2	09/783726	2001/0005857		Abandoned
10072	10072-US-DIV3	09/781989	2001/0009015	6401113	Expired
10072	10072-US-DIV4	09/782129	2001/0005860		Abandoned
10072	10072-US-DIV5	09/782412	2001/0005861		Abandoned
10072	10072-US-DIV6	10/277294	2003/0050987		Abandoned
10072	10072-US-DIV7	10/970591	2005/0148356	7266365	Expired
10072	10072-US-PAT	09/087623		6219694	Expired
10072	10072-US-PCT	10/381163	2004/0136358	8516055	Granted
10072	10072-US-PCT1	10/088784			Abandoned
10072	10072-US-PCT3	10/240960	2003/0187938	7386588	Expired
10072	10072-US-PCT4	10/240945	2004/0024824		Abandoned
10072	10072-US-PRV	60/237616			Converted
10072	10072-US-PRV1	60/227947			Converted
10072	10072-US-PRV2	60/233501			Converted
10072	10072-US-PRV2	60/233501			Converted
10072	10072-US-PRV2	60/233501			Converted
10072	10072-US-PRV3	60/268824			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
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10072	10072-US-PRV3	60/268824			Converted
10082	10082-US-CNT	11/210718	2006/0018283	7529230	Granted
10082	10082-US-CNT	11/210718	2006/0018283	7529230	Granted
10082	10082-US-CNT[2]	12/357861	2009/0135765	8050684	Granted
10082	10082-US-CNT[2]	12/357861	2009/0135765	8050684	Granted
10082	10082-US-CNT[3]	13/111465	2011/0225630	8165575	Expired
10082	10082-US-CNT[3]	13/111465	2011/0225630	8165575	Expired
10082	10082-US-CNT[4]	13/228849	20120008560	8483694	Expired
10082	10082-US-CNT[4]	13/228849	20120008560	8483694	Expired
10082	10082-US-CNT[5]	13/398136	2012/0142359	8693996	Granted
10082	10082-US-CNT[5]	13/398136	2012/0142359	8693996	Granted
10082	10082-US-CNT[6]	13/441503	2012/0201125	9258372	Granted
10082	10082-US-CNT[6]	13/441503	2012/0201125	9258372	Granted
10082	10082-US-PAT	11/947618	2008/0279133	8179872	Granted
10082	10082-US-PAT	11/947618	2008/0279133	8179872	Granted
10082	10082-US-PCT	10/451717	2004/0116119	7010303	Granted
10082	10082-US-PCT	10/451717	2004/0116119	7010303	Granted
10082	10082-US-PRV	60/257425			Converted
10082	10082-US-PRV	60/257425			Converted
10082	10082-US-PRV2	60/917003			Converted
10082	10082-US-PRV2	60/917003			Converted
10087	10087-US-CNT	12/363306	2009/0195508		Abandoned
10087	10087-US-PCT	10/480614	2004/0198249	7504967	Granted
10087	10087-US-PRV	60/297723			Converted
10091	10091-US-CNT	11/857560	2008/0008163	8498289	Granted
10091	10091-US-CNT[2]	13/927524	2013/0286900		Abandoned
10091	10091-US-PAT	10/051697	2002/0098831	7283808	Granted
10091	10091-US-PRV	60/262575			Converted
10092	10092-US-CNT	11/504926	2007/0005688		Abandoned
10092	10092-US-PAT	10/079317	2002/0143866	7103656	Granted
10092	10092-US-PRV	60/270097			Converted
10120	10120-US-CIP	09/543231		6489950	Expired
10120	10120-US-CIP[1]	09/663972		6873317	Expired
10120	10120-US-CIP[2]	09/976536	2002/0044136	7705828	Expired
10120	10120-US-CIP[3]	09/106585		6278442	Expired
10120	10120-US-CIP[4]	09/344432		6396482	Expired
10120	10120-US-CIP[5]	10/205023	2003/0020692	6919879	Expired
10120	10120-US-CNT	09/900585	2001/0038382	6452588	Expired
10120	10120-US-CNT[1]	10/167202	2002/0158847	6611255	Expired

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10120	10120-US-CNT[10]	10/997340	2005/0073509	7319461	Granted
10120	10120-US-CNT[11]	11/561540	2007/0075974	7969419	Expired
10120	10120-US-CNT[12]	11/740801	2007/0242047	7629964	Expired
10120	10120-US-CNT[13]	13/101524	2011/0205192	8144135	Expired
10120	10120-US-CNT[14]	13/111596	2011/0225491	10067572	Expired
10120	10120-US-CNT[14][1]	13/791311	2013/0201110	9367141	Expired
10120	10120-US-CNT[15]	13/111554	2011/0215999	8493322	Expired
10120	10120-US-CNT[15][1]	13/926014	2013/0285918	9703390	Expired
10120	10120-US-CNT[16]	13/244790	2012/0032889	8464149	Expired
10120	10120-US-CNT[2]	10/176866	2002/0149567	7158120	Expired
10120	10120-US-CNT[3]	10/269527	2003/0095107	6867763	Expired
10120	10120-US-CNT[4]	10/425121	2003/0206156	7227536	Expired
10120	10120-US-CNT[5]	11/950234	2008/0094363	7495660	Expired
10120	10120-US-CNT[6]	12/354674	2009/0122032	7639241	Expired
10120	10120-US-CNT[7]	12/636192	2010/0090990	7952571	Expired
10120	10120-US-CNT[8]	12/628597	2010/0073300	8416195	Expired
10120	10120-US-CNT[9]	12/723254	2010/0164872	9134759	Expired
10120	10120-US-DES	29/089942		D416256	Expired
10120	10120-US-DIV	09/634774		6611254	Expired
10120	10120-US-PAT	10/038314	2003/0076292	6842169	Granted
10120	10120-US-PRV	60/307755			Converted
10144	10144-US-CNT	10/223409	2003/0028372	6647367	Expired
10144	10144-US-CNT1	10/620551	2004/0015348	7174291	Expired
10144	10144-US-PAT	09/452623		6473733	Expired
10158	10158-US-CNT	12/724950	2010/0174910	8219819	Expired
10158	10158-US-CNT[2]	13/493520	2012/0257752	8499160	Expired
10158	10158-US-CNT[3]	13/934178	2013/0294600	9503261	Expired
10158	10158-US-PAT	09/594368		7707420	Granted
10158	10158-US-PRV	60/140564			Converted
10165	10165-US-CIP	09/725833	2001/0000423	6380711	Expired
10165	10165-US-PAT	09/343304		6191551	Expired
10165	10165-US-PAT2	09/347771			Abandoned
10173	10173-US-CNT	10/744793	2004/0139364	7057436	Expired
10173	10173-US-CNT[3]	12/352282	2009/0174454	7808292	Granted
10173	10173-US-CNT[4]	12/870918	2010/0321081	8354868	Expired
10173	10173-US-CNT[5]	13/711787	2013/0113539	8749290	Expired
10173	10173-US-CNT[6]	14/271528	2014/0240010	9571070	Expired
10173	10173-US-CNT2	11/446915	2006/0229033	7489177	Expired
10173	10173-US-PAT	10/004136	2003/0076146	6693477	Expired
10183	10183-US-CNT	11/264081	2006/0052138	7369877	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10183	10183-US-PAT	10/163912	2004/0198450	7047043	Granted
10184	10184-US-DCP	29/132208		D464995	Expired
10184	10184-US-DCP(1)	29/130854		D460493	Expired
10184	10184-US-DEC	29/178867		D490119	Expired
10184	10184-US-DED	29/168560			Abandoned
10184	10184-US-DER	29/213812		RE40157	Expired
10184	10184-US-DES4	29/108876		D433460	Expired
10184	10184-US-DES6	29/151189		D461803	Expired
10227	10227-US-CNT	10/442916	2003/0193357	6915442	Expired
10227	10227-US-PAT	09/480811		6578154	Expired
10230	10230-US-PAT	09/455211		6477529	Expired
10239	10239-US-CNT	11/282900	2006/0107192	7421644	Expired
10239	10239-US-CNT2	12/177933	2008/0282127	8140950	Expired
10239	10239-US-PCT	10/168516	2003/0126551	7000174	Granted
10239	10239-US-PRV	60/172676			Converted
10241	10241-US-CNT	10/014940	2002/0044093	6781548	Expired
10241	10241-US-PAT	09/543176		6329951	Expired
10242	10242-US-CNT	11/848531	2008/0046508	8239755	Granted
10242	10242-US-CNT[2]	13/534591	2012/0266064	9100861	Expired
10242	10242-US-PAT	09/624285		7302637	Granted
10243	10243-US-PAT	09/799649		6405910	Expired
10243	10243-US-PRV	60/246179			Converted
10247	10247-US-CNT	10/990014	2005/0071358	7490114	Granted
10247	10247-US-CNT[3]	13/361360	20120130953	8468127	Expired
10247	10247-US-CNT2	12/171787	2008/0270486	8131672	Expired
10247	10247-US-PAT	09/545964		6820088	Expired
10247	10247-US-PCT	10/240795	2004/0024795	7496606	Granted
10250	10250-US-CNT	10/946420	2005/0059357	7292822	Granted
10250	10250-US-CNT[3]	12/778818	2010/0220772	8099048	Expired
10250	10250-US-CNT[4]	13/325262	2012/0094615	8260204	Expired
10250	10250-US-CNT[5]	13/563922	2012/0294340	8463185	Expired
10250	10250-US-CNT2	11/863330	2008/0020709	7747220	Expired
10250	10250-US-PAT	09/863944	2001/0048386	6825794	Granted
10250	10250-US-PRV	60/209152			Converted
10251	10251-US-PAT	09/864507	2001/0053179	6462698	Expired
10251	10251-US-PRV	60/209153			Converted
10252	10252-US-PAT	09/867829	2002/0008588	6483388	Expired
10252	10252-US-PRV	60/212999			Converted
10256	10256-US-PAT	09/867189	2002/0053953	6570462	Expired
10256	10256-US-PRV	60/246820			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10266	10266-US-PCD	12/632432	2010/0088504	8145896	Abandoned
10266	10266-US-PCD[2]	13/402039	2012/0159150	8516242	Abandoned
10266	10266-US-PCT	10/362178	2003/0159029	7631180	Abandoned
10266	10266-US-PRV	60/227946			Converted
10267	10267-US-CNT	11/675764	2007/0139224	7920074	Granted
10267	10267-US-PAT	10/007481	2002/0063684	7180431	Granted
10267	10267-US-PRV	60/246540			Converted
10268	10268-US-CNT	10/942546	2005/0029988	6982544	Granted
10268	10268-US-CNT1	11/264216	2006/0049805	7301305	Granted
10268	10268-US-PAT	10/189714	2003/0008202	6794852	Granted
10268	10268-US-PRV	60/303129			Converted
10270	10270-US-CNT	11/928388	2008/0069064	7986678	Granted
10270	10270-US-PAT	09/891038	2002/0059449		Abandoned
10270	10270-US-PRV	60/214080			Converted
10271	10271-US-CNT	11/949979	2008/0090626	7979035	Abandoned
10271	10271-US-CNT[2]	13/469602	2012/0225699	8437813	Abandoned
10271	10271-US-DIV	13/154557	2011/0237195	8229515	Abandoned
10271	10271-US-PCT	10/416322	2004/0063456	7313423	Abandoned
10271	10271-US-PRV	60/246533			Converted
10272	10272-US-CNT	10/602576	2003/0231055	6768377	Expired
10272	10272-US-CNT1	10/896548	2004/0251960	6977552	Expired
10272	10272-US-PAT	10/007482	2002/0053947	6586993	Expired
10272	10272-US-PRV	60/246787			Converted
10273	10273-US-CNT	12/607468	2010/0048261	8391468	Granted
10273	10273-US-CNT[2]	12/908311	2011/0043385		Abandoned
10273	10273-US-CNT[3]	12/908328	2011/0032125		Abandoned
10273	10273-US-CNT[4]	13/193899	2011/0304552	8559622	Expired
10273	10273-US-CNT[5]	14/271612	2014/0243047	9071703	Expired
10273	10273-US-PAT	10/004001	2002/0054676	7634080	Granted
10273	10273-US-PRV	60/246321			Converted
10274	10274-US-DIV	10/453353	2003/0211767	6845023	Expired
10274	10274-US-PAT	09/799651	2002/0055288	6669495	Expired
10274	10274-US-PRV	60/246127			Converted
10276	10276-US-CNT	11/451083	2006/0229065	7248861	Granted
10276	10276-US-CNT[3]	12/726405	2010/0174756	8296351	Granted
10276	10276-US-CNT[4]	13/614884	2013/0006774	8676929	Granted
10276	10276-US-CNT2	11/763595	2007/0239874	7711769	Granted
10276	10276-US-PAT	10/201495	2003/0026231	7076244	Granted
10276	10276-US-PRV	60/307265			Converted
10277	10277-US-DIV	11/683762	2007/0146304	7843413	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10277	10277-US-PAT	10/007831	2002/0054010	7209150	Granted
10277	10277-US-PRV	60/246126			Converted
10278	10278-US-CNT	10/768509	2004/0199499		Abandoned
10278	10278-US-PAT	09/880216	2002/0002453	6691111	Granted
10278	10278-US-PRV	60/215222			Converted
10282	10282-US-CNT	11/237010	2006/0026603	7805729	Granted
10282	10282-US-CNT[2]	12/887758	2011/0010639	8275844	Expired
10282	10282-US-CNT[3]	13/244793	2012/0017158	8275846	Reissued (Inactive Parent)
10282	10282-US-PAT	09/897207	2002/0107991	6990672	Granted
10282	10282-US-PRV	60/215605			Converted
10282	10282-US-REI[3]	14/298755		RE47081	Expired
10283	10283-US-PAT	09/934895	2002/0024329	6426614	Expired
10283	10283-US-PRV	60/227523			Converted
10285	10285-US-CNT	11/289172	2006/0078073	7555090	Granted
10285	10285-US-PAT	09/992814	2002/0055334	6999548	Granted
10285	10285-US-PRV	60/246429			Converted
10287	10287-US-CNT	11/183681	2005/0282581	7471937	Granted
10287	10287-US-CNT[2]	12/336595	2009/0098830	7817976	Expired
10287	10287-US-PAT	09/990553	2002/0097820	6920190	Granted
10287	10287-US-PRV	60/252795			Converted
10288	10288-US-CNT	11/339080	2006/0120499	7463708	Expired
10288	10288-US-CNT2	12/264950	2010/0111001	8125934	Expired
10288	10288-US-PAT	09/996116	2002/0064249	7006588	Granted
10288	10288-US-PRV	60/253791			Converted
10292	10292-US-DIV	11/182342	2005/0250489		Abandoned
10292	10292-US-DIV[2]	12/560738	2010/0005002	8606881	Granted
10292	10292-US-PAT	09/929375	2002/0032746	7000001	Granted
10292	10292-US-PRV	60/232037			Converted
10294	10294-US-CNT	11/437049	2006/0211458	7194086	Expired
10294	10294-US-CNT2	11/701048	2007/0135184	7324642	Expired
10294	10294-US-PAT	10/010341	2002/0071550	7054441	Granted
10294	10294-US-PRV	60/254955			Converted
10296	10296-US-CNT	12/060621	2008/0222269	7596631	Reissued (Inactive Parent)
10296	10296-US-CNT[2]	12/545304	2009/0313387	7761603	Expired
10296	10296-US-CNT[3]	12/838721	2010/0281391	8190776	Expired
10296	10296-US-PCT	10/451715	2004/0073626	7389361	Reissued (Inactive Parent)
10296	10296-US-PRV	60/257428			Converted
10296	10296-US-REI	12/361161		RE41786	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10296	10296-US-REI[2]	13/246896		RE43678	Expired
10297	10297-US-CNT	11/285250	2006/0072654	7242709	Expired
10297	10297-US-PAT	10/017158	2002/0080863	6985518	Granted
10297	10297-US-PRV	60/257737			Converted
10299	10299-US-PAT	10/079169	2002/0126146	8489146	Granted
10299	10299-US-PRV	60/269810			Converted
10301	10301-US-PAT	10/079319	2002/0120860	7860972	Granted
10301	10301-US-PRV	60/269809			Converted
10302	10302-US-PAT	10/131959	2002/0188880		Abandoned
10302	10302-US-PRV	60/286857			Converted
10304	10304-US-CNT	11/544532	2007/0027956	7747691	Granted
10304	10304-US-CNT[2]	12/777300	2010/0223670	8347390	Granted
10304	10304-US-CNT[3]	13/689842	2013/0091576	8661546	Granted
10304	10304-US-PAT	10/094201	2002/0132607	7136920	Granted
10304	10304-US-PRV	60/274510			Converted
10305	10305-US-PAT	10/098083	2002/0132609		Abandoned
10305	10305-US-PRV	60/275958			Converted
10306	10306-US-PAT	09/824381	2002/0139822		Abandoned
10309	10309-US-CIP	10/890824	2005/0048958	7096009	Granted
10309	10309-US-CNT	11/458843	2007/0242809	8406389	Granted
10309	10309-US-CNT[3]	12/557112	2009/0325540	8219069	Granted
10309	10309-US-CNT[4]	13/532560	2012/0264410	8606239	Granted
10309	10309-US-CNT[5]	13/772159	2013/0165184	8971504	Granted
10309	10309-US-CNT[6]	14/614526	2015/0172451	10419600	Granted
10309	10309-US-CNT[7]	16/571372	2020/0014793	11019196	Granted
10309	10309-US-CNT2	11/924295	2008/0045265	7596386	Granted
10309	10309-US-PAT	10/095603	2002/0128036	7295836	Granted
10309	10309-US-PRV	60/274508			Converted
10310	10310-US-CNT	10/613109	2004/0004574	6950071	Granted
10310	10310-US-PAT	10/119079	2002/0149527	6664930	Granted
10310	10310-US-PRV	60/283311			Converted
10311	10311-US-CNT	11/371686	2006/0152873		Abandoned
10311	10311-US-CNT[2]	13/038902	2011/0148362	8072724	Granted
10311	10311-US-CNT[3]	13/280554	2012/0039008	8363370	Granted
10311	10311-US-DIV	12/436992	2009/0213512	7948727	Granted
10311	10311-US-PAT	10/261038	2003/0076642	7035070	Granted
10311	10311-US-PRV	60/325551			Converted
10314	10314-US-CNT	11/398428	2006/0189306	7197296	Granted
10314	10314-US-CNT2	11/690977	2007/0168660	7757079	Granted
10314	10314-US-PCT	10/484278	2004/0171374	7046991	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10314	10314-US-PRV	60/305667			Converted
10318	10318-US-CNT	11/274581	2006/0063497		Abandoned
10318	10318-US-CNT[2]	12/494835	2009/0262861	7725087	Granted
10318	10318-US-CNT[3]	12/785607	2010/0233974	8219044	Granted
10318	10318-US-CNT[4]	13/491945	2012/0253736	8526896	Granted
10318	10318-US-PAT	10/145930	2003/0045249	6987954	Granted
10318	10318-US-PRV	60/291239			Converted
10323	10323-US-CNT	11/412494	2006/0194586	7630342	Granted
10323	10323-US-CNT[2]	12/540462	2009/0310569	7764654	Granted
10323	10323-US-CNT[3]	12/793020	2010/0240363	8369287	Granted
10323	10323-US-PAT	10/119078	2002/0150063	7065063	Granted
10323	10323-US-PRV	60/283021			Converted
10324	10324-US-CNT	12/561859	2010/0003972	8700096	Granted
10324	10324-US-PCT	10/474174	2004/0110497	7610045	Granted
10324	10324-US-PRV	60/283315			Converted
10325	10325-US-CNT	12/965222	2011/0077050	8099090	Granted
10325	10325-US-CNT[2]	13/327841	2012/0088481	8472932	Granted
10325	10325-US-CNT[3]	13/924072	2013/0281153	9131532	Granted
10325	10325-US-CNT[4]	14/846456	2015/0381811	9807242	Granted
10325	10325-US-CNT[5]				Dropped
10325	10325-US-PAT	10/146556	2002/0172336	7885645	Granted
10325	10325-US-PRV	60/291303			Converted
10327	10327-US-CNT	11/244548	2006/0028425	7495649	Granted
10327	10327-US-CNT[2]	12/352710	2009/0122004	8111210	Granted
10327	10327-US-CNT[3]	13/342494	2012/0105504	8570246	Granted
10327	10327-US-PAT	10/146075	2002/0171618	6967657	Granted
10327	10327-US-PRV	60/291216			Converted
10329	10329-US-CNT	11/871264	2008/0030479		Abandoned
10329	10329-US-PAT	10/717877	2004/0155991	7388571	Granted
10329	10329-US-PRV	60/427963			Converted
10330	10330-US-CNT	12/850047	2010/0297984	8068816	Granted
10330	10330-US-CNT[2]	13/281142	2012/0052846	8380174	Granted
10330	10330-US-PAT	10/703644	2004/0136510	7796977	Granted
10330	10330-US-PRV	60/426872			Converted
10367	10367-US-CNT	12/372233	2009/0210877	8627316	Granted
10367	10367-US-PCT	10/479388	2004/0148613	7493616	Granted
10367	10367-US-PRV	60/294331			Converted
10369	10369-US-CNT	11/089869	2005/0163320	7827406	Granted
10369	10369-US-CNT[10]	13/957574	2013/0318344	9172540	Granted
10369	10369-US-CNT[2]	11/776099	2008/0016359	7657736	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10369	10369-US-CNT[3]	12/480841	2009/0292916	8015400	Reissued (Inactive Parent)
10369	10369-US-CNT[4]	12/691204	2010/0122089	8291212	Granted
10369	10369-US-CNT[5]	12/693021	2010/0124333	8447980	Granted
10369	10369-US-CNT[6]	12/916929	2011/0231646	8527767	Granted
10369	10369-US-CNT[7]	13/223999	2012/0060026	8539226	Granted
10369	10369-US-CNT[8]	13/228485	2011/0320807	8661267	Granted
10369	10369-US-CNT[9]	13/611016	2013/0007459	8898473	Granted
10369	10369-US-PCD	12/686046	2010/0115264	8205084	Granted
10369	10369-US-PCT	10/480514	2004/0196978	7653815	Granted
10369	10369-US-PCT1	10/480615	2004/0171369	7546453	Granted
10369	10369-US-PCT2	10/480613	2004/0205330	7254712	Granted
10369	10369-US-PCT3	10/483282	2004/0205248	9628269	Granted
10369	10369-US-PCT4	10/486406	2004/0202327	8019081	Granted
10369	10369-US-PRV	60/297681			Converted
10369	10369-US-PRV1	60/304396			Converted
10369	10369-US-PRV2	60/310330			Converted
10369	10369-US-PRV3	60/365533			Converted
10369	10369-US-PRV4	60/365535			Converted
10369	10369-US-REI[3]	13/964180		RE45087	Granted
10370	10370-US-CNT	11/215335	2006/0030299	7373145	Granted
10370	10370-US-CNT2	12/107395	2008/0192667	7937043	Granted
10370	10370-US-PCT	10/491321	2004/0248573	6999729	Granted
10370	10370-US-PRV	60/325545			Converted
10371	10371-US-PCT	10/482756	2004/0172420	8019789	Granted
10371	10371-US-PRV	60/302872			Converted
10374	10374-US-CNT	10/462922	2003/0214052	7038326	Granted
10374	10374-US-PAT	10/172325	2002/0190360	6580163	Granted
10374	10374-US-PRV	60/299042			Converted
10407	10407-US-CNT	13/462266	2012/0216032	8526618	Granted
10407	10407-US-PCT	10/493507	2005/0009502	8194857	Granted
10407	10407-US-PRV	60/330608			Converted
10409	10409-US-CNT	11/683842	2007/0150837	7779366	Granted
10409	10409-US-CNT[2]	12/856026	2010/0306695	8156449	Granted
10409	10409-US-CNT[3]	13/418639	2012/0169749	8296685	Granted
10409	10409-US-CNT[4]	13/617137	2013/0002692	8533633	Granted
10409	10409-US-PAT	10/189715	2003/0020740	7200819	Granted
10409	10409-US-PRV	60/302871			Converted
10411	10411-US-CNT	12/480995	2009/0256728	8098814	Granted
10411	10411-US-CNT[2]	13/316184	2012/0081295	8824669	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10411	10411-US-PCT	10/872983	2005/0053225	7561685	Granted
10411	10411-US-PRV	60/341758			Converted
10412	10412-US-CNT	13/345321	2012/0105323	8390570	Granted
10412	10412-US-DIV	11/240501	2006/0071905	8115731	Granted
10412	10412-US-PAT	10/191232	2003/0006959		Abandoned
10412	10412-US-PRV	60/303865			Converted
10414	10414-US-CNT	12/363220	2009/0210936	8578057	Granted
10414	10414-US-CNT[2]	12/535305	2009/0296657	8554950	Granted
10414	10414-US-PCT	10/483449	2004/0170155	7526572	Granted
10414	10414-US-PCT1	10/483457	2004/0166834	7590759	Granted
10414	10414-US-PCT2	10/483116	2004/0199665		Abandoned
10414	10414-US-PRV	60/305044			Converted
10414	10414-US-PRV1	60/327752			Converted
10414	10414-US-PRV2	60/330604			Converted
10414	10414-US-PRV3	60/340839			Converted
10443	10443-US-CNT	13/244815	2012/0015643		Abandoned
10443	10443-US-CNT[2]	13/248964	2012/0021719	8798577	Granted
10443	10443-US-CNT[3]	13/855310	2013/0225114		Abandoned
10443	10443-US-PCD	12/906366	2011/0034161	8571527	Granted
10443	10443-US-PCT	10/489433	2004/0242209	7817988	Granted
10448	10448-US-CNT	10/691986	2004/0092244	6897734	Granted
10448	10448-US-PAT	10/254332	2003/0071693	6864754	Granted
10448	10448-US-PRV	60/328411			Converted
10449	10449-US-CNT	12/974649	2011/0092256	8107996	Granted
10449	10449-US-PAT	10/271917	2003/0073456	7881743	Granted
10449	10449-US-PRV	60/329319			Converted
10452	10452-US-CNT	12/651747	2010/0161318	8073835	Granted
10452	10452-US-CNT[2]	13/285179	2012/0065962	8380712	Granted
10452	10452-US-CNT[3]	13/739021	2013/0132073	8676793	Granted
10452	10452-US-CNT[4]	14/162473	2014/0136190	9020935	Granted
10452	10452-US-PCT	10/522079	2005/0246365	7650348	Granted
10452	10452-US-PRV	60/397680			Converted
10453	10453-US-PAT	10/824591	2005/0231489		Abandoned
10460	10460-US-PAT	10/689901	2004/0139118	7209926	Granted
10460	10460-US-PRV	60/420731			Converted
10461	10461-US-CNT	10/849833	2005/0014494	7636565	Granted
10461	10461-US-PCD	12/615608	2010/0050072	7904073	Granted
10461	10461-US-PCD[2]	12/615658	2010/0057888	8010097	Granted
10461	10461-US-PRV	60/331998			Converted
10464	10464-US-CNT	11/122674	2005-0205404	7106306	Granted

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10464	10464-US-CNT2	11/492411	2006/0262095		Abandoned
10464	10464-US-PAT	10/302242	2003/0098853	6891529	Granted
10464	10464-US-PRV	60/331999			Converted
10486	10486-US-CNT	12/539038	2009/0296646	7934015	Granted
10486	10486-US-CNT[2]	12/975859	2011/0085510	8560728	Granted
10486	10486-US-PCT	10/488488	2004/0205233	7581020	Granted
10486	10486-US-PRV	60/316096			Converted
10488	10488-US-PCT	10/490247	2004/0266441	8671130	Granted
10488	10488-US-PRV	60/323865			Converted
10521	10521-US-PAT	10/414780	2003/0193370	6870425	Granted
10521	10521-US-PRV	60/372449			Converted
10522	10522-US-CNT	10/985238	2005/0127959	6992513	Granted
10522	10522-US-DIV	11/244547	2006/0028251	7180349	Granted
10522	10522-US-PAT	10/414876	2003/0193355	6847239	Granted
10522	10522-US-PRV	60/372425			Converted
10528	10528-US-CNT	12/769240	2010/0250948	8103876	Granted
10528	10528-US-CNT[2]	13/332917	2012/0124382	8966246	Granted
10528	10528-US-PCT	10/508114	2005/0172128	7761703	Granted
10528	10528-US-PRV	60/365518			Converted
10530	10530-US-CNT	11/690430	2007/0173242	7920857	Granted
10530	10530-US-CNT[2]	13/036117	2011/0148654	8315650	Granted
10530	10530-US-CNT[3]	13/349136	2012/0108268	8315621	Granted
10530	10530-US-PAT	10/429590	2003/0224762	7221937	Granted
10530	10530-US-PRV	60/377644			Converted
10534	10534-US-CNT	12/108649	2008/0201430	7835759	Granted
10534	10534-US-CNT[2]	12/765935	2010/0205270	8050695	Granted
10534	10534-US-CNT[3]	13/253265	2012/0030298		Abandoned
10534	10534-US-PAT	10/667544	2004/0116137	7379732	Granted
10534	10534-US-PRV	60/412818			Converted
10535	10535-US-PCT	10/510071	2005/0132007	7478409	Granted
10535	10535-US-PRV	60/368138			Converted
10541	10541-US-CNT	11/481234	2006/0252464	7231226	Expired
10541	10541-US-CNT2	11/744467	2007/0207829	7519388	Expired
10541	10541-US-PAT	10/016957	2003/0109275	7076267	Granted
10543	10543-US-CNT	12/497854	2009/0268672	7970860	Granted
10543	10543-US-CNT[2]	13/109273	2011/0218951	8671162	Granted
10543	10543-US-PCT	10/507083	2005/0108322		Abandoned
10543	10543-US-PRV	60/362930			Converted
10548	10548-US-CNT	11/499290	2006/0271679	7356591	Granted
10548	10548-US-CNT[3]	13/354880	2012/0113933	8694650	Granted

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10548	10548-US-CNT[4]	14/224352	2014/0207857	9369531	Granted
10548	10548-US-CNT2	12/031926	2010/0030887	8180900	Granted
10548	10548-US-PAT	10/313103	2003/0109272	7107341	Granted
10548	10548-US-PRV	60/340300			Converted
10549	10549-US-CNT	11/327028	2006/0112167	8949461	Granted
10549	10549-US-PCT	10/472652	2004/0110490		Abandoned
10549	10549-US-PRV	60/341223			Converted
10549	10549-US-PRV1	60/254976			Converted
10549	10549-US-PRV2	60/402564			Converted
10552	10552-US-CNT	13/707103	2013/0097672	9743278	Granted
10552	10552-US-PAT	10/327754	2003/0120957	8347104	Granted
10552	10552-US-PRV	60/342135			Converted
10558	10558-US-CNT	12/954731	2011/0072270	8423763	Granted
10558	10558-US-CNT[2]	13/792785	2013/0191633		Abandoned
10558	10558-US-PCT	10/508631	2005/0148323	7865720	Granted
10558	10558-US-PRV	60/365534			Converted
10560	10560-US-CNT	13/535777	2012/0265869	8533467	Granted
10560	10560-US-CNT[2]	13/974467	2014/0173277	8943317	Granted
10560	10560-US-PCD	12/881523	2010/0332824	8239675	Granted
10560	10560-US-PCT	10/508186	2005/0169476	7822971	Granted
10560	10560-US-PRV	60/365519			Converted
10561	10561-US-CNT	14/080025	2014/0075191	9215238	Granted
10561	10561-US-PCT	10/508644	2005/0114671	8615661	Granted
10561	10561-US-PRV	60/365532			Converted
10562	10562-US-CNT	13/211646	2011/0302402	8683189	Granted
10562	10562-US-PCD	12/113321	2008/0201541	8028157	Granted
10562	10562-US-PCT	10/500131	2005/0033951	7386713	Granted
10562	10562-US-PRV	60/342082			Converted
10564	10564-US-CNT	12/138349	2008/0249724	7983863	Granted
10564	10564-US-CNT[2]	13/158097	2011/0238344	8655613	Granted
10564	10564-US-PAT	10/668763	2004/0117137	7418356	Granted
10564	10564-US-PRV	60/412774			Converted
10566	10566-US-CNT	13/043859	2011/0271115	9807082	Granted
10566	10566-US-PCT	10/508115	2005/0149442		Abandoned
10566	10566-US-PRV	60/365516			Converted
10574	10574-US-CNT	11/360363	2006/0142030	8121582	Granted
10574	10574-US-CNT[2]	13/029704	2011/0167123	8868047	Granted
10574	10574-US-CNT[3]	14/506860	2015/0026093	9881324	Granted
10574	10574-US-PAT	10/667094	2004/0142709	7020480	Granted
10574	10574-US-PRV	60/411744			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10575	10575-US-CNT	13/776906	2013/0166665	10284511	Granted
10575	10575-US-PCT	10/512551	2005/0228864		Abandoned
10575	10575-US-PRV	60/375449			Converted
10576	10576-US-CNT	15/193512	2016/0308672	10103874	Granted
10576	10576-US-PCT	10/522353	2006/0031299	9379910	Granted
10576	10576-US-PRV	60/398800			Converted
10577	10577-US-CNT	11/946374	2008/0071921	7899926	Granted
10577	10577-US-CNT[2]	13/013323	2011/0117895	8250233	Granted
10577	10577-US-CNT[3]	15/188625	2016/0366570		Abandoned
10577	10577-US-DIV[2]	13/555582	2012/0289202		Abandoned
10577	10577-US-PAT	10/289657	2004/0090465	7319860	Granted
10580	10580-US-CNT	11/603800	2007/0066275	8582583	Granted
10580	10580-US-CNT[2]	14/064245	2014/0057673	9247581	Granted
10580	10580-US-PAT	10/352585	2003/0143973	7164904	Granted
10580	10580-US-PRV	60/351419			Converted
10586	10586-US-CNT	11/525701	2007/0022295	7483950	Granted
10586	10586-US-PAT	10/092325	2003/0172122	7130886	Granted
10629	10629-US-CNT	12/477655	2009/0234931	8015254	Granted
10629	10629-US-CNT[2]	13/191832	2011/0283109	8443047	Granted
10629	10629-US-CNT[3]	13/891852	2013/0246549	9032036	Granted
10629	10629-US-PAT	10/688543	2004/0139162	7539730	Granted
10629	10629-US-PAT1	10/688544	2004/0139163	7584254	Granted
10629	10629-US-PRV	60/419103			Converted
10629	10629-US-PRV1	60/494625			Converted
10636	10636-US-CNT	12/574564	2010/0020697	8179922	Granted
10636	10636-US-PAT	10/995062	2005/0237942	7616665	Granted
10636	10636-US-PRV	60/561582			Converted
10637	10637-US-CNT	12/276537	2009/0079759	7881527	Granted
10637	10637-US-CNT[2]	12/976444	2011/0090241	8014595	Granted
10637	10637-US-CNT[3]	13/198216	2011/0285744	8971616	Granted
10637	10637-US-PAT	10/776824	2004/0160456	7466855	Granted
10637	10637-US-PRV	60/446207			Converted
10642	10642-US-CNT	12/046867	2008/0153500	7801562	Granted
10642	10642-US-CNT[2]	12/858987	2010/0309898	8472435	Granted
10642	10642-US-PAT	10/836245	2004/0224694	7366515	Granted
10642	10642-US-PRV	60/468310			Converted
10652	10652-US-CNT	11/506509	2006/0279539	7453448	Granted
10652	10652-US-PAT	10/238198	2004/0046794	7106314	Granted
10657	10657-US-CNT	13/606856	2013/0053001	8798597	Granted
10657	10657-US-PAT	10/456715	2003/0228863	8285255	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10657	10657-US-PAT1	10/456181	2004/0023643	8005461	Granted
10657	10657-US-PRV	60/386709			Converted
10658	10658-US-CNT	11/393962	2006/0172737	7389109	Granted
10658	10658-US-CNT[3]	13/239002	2012/0243436	8731552	Granted
10658	10658-US-CNT2	12/119856	2008/0287125	8036654	Granted
10658	10658-US-PAT	10/696980	2005/0037755	7184768	Granted
10658	10658-US-PRV	60/422124			Converted
10662	10662-US-CNT	11/622397	2007/0178888	7747244	Granted
10662	10662-US-CNT[2]	12/794935	2010/0238793	8295817	Granted
10662	10662-US-PAT	10/762957	2005/0003765	7181204	Granted
10691	10691-US-CNT	11/122455	2005/0200537	7183984	Granted
10691	10691-US-PAT	10/462440	2004/0075613	6891506	Granted
10691	10691-US-PRV	60/390491			Converted
10716	10716-US-CNT	11/778982	2008/0015844	7809553	Granted
10716	10716-US-CNT[2]	12/767969	2010/0211381		Abandoned
10716	10716-US-PAT	10/289656	2004/0006455	7269548	Granted
10716	10716-US-PRV	60/393903			Converted
10717	10717-US-CNT	11/451551	2006/0227016	7671765	Granted
10717	10717-US-CNT[2]	13/033189	2011/0141029	8207873	Granted
10717	10717-US-CNT[3]	13/478283	2012/0235920	8803812	Granted
10717	10717-US-DIV	12/651503	2010/0102998	7916046	Granted
10717	10717-US-PAT	10/282518	2004/0004558	7061403	Granted
10717	10717-US-PRV	60/393997			Converted
10718	10718-US-PAT	10/611519	2004/0044422		Abandoned
10718	10718-US-PRV	60/393949			Converted
10718	10718-US-PRV1	60/400752			Converted
10719	10719-US-CNT	11/828588	2007/0262993	7362898	Granted
10719	10719-US-CNT2	12/054029	2008/0218522	7787694	Granted
10719	10719-US-PAT	10/610227	2004/0006749	7251365	Granted
10719	10719-US-PRV	60/393795			Converted
10719	10719-US-PRV1	60/400373			Converted
10720	10720-US-CNT	11/743401	2007/0203692	7512533	Granted
10720	10720-US-PAT	10/305563	2004/0006458	7228267	Granted
10720	10720-US-PRV	60/393948			Converted
10721	10721-US-CNT	13/089749	2011/0196921	8572479	Granted
10721	10721-US-PAT	10/106900	2002/0161796	7954055	Granted
10721	10721-US-PRV	60/278137			Converted
10724	10724-US-PCT	10/521872	2005/0239494	7353350	Granted
10724	10724-US-PRV	60/397621			Converted
10729	10729-US-CNT	11/937215	2008/0057991	7529527	Granted

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10729	10729-US-CNT[2]	12/414252	2009/0180376	8060039	Granted
10729	10729-US-PAT	10/602969	2004/0038700	7313371	Granted
10729	10729-US-PRV	60/397682			Converted
10730	10730-US-CNT	12/241515	2009/0034500	8379610	Abandoned
10730	10730-US-PAT	10/715693	2004/0156331	7447905	Abandoned
10730	10730-US-PRV	60/427239			Converted
10734	10734-US-CNT	12/892450	2011/0013535	8406147	Granted
10734	10734-US-PAT	10/898315	2006/0018290	7826478	Granted
10735	10735-US-CNT	12/869589	2010/0325741	8302185	Granted
10735	10735-US-CNT[2]	13/606814	2013/0007877		Abandoned
10735	10735-US-PAT	10/732132	2004/0255169	7793355	Granted
10735	10735-US-PRV	60/432610			Converted
10745	10745-US-CNT	12/691409	2010/0125642	8065376	Granted
10745	10745-US-CNT[2]	13/274563	2012/0036211	8291030	Granted
10745	10745-US-CNT[3]	13/613364	2013/0007167		Abandoned
10745	10745-US-PAT	10/640449	2004/0122905	7730136	Granted
10745	10745-US-PRV	60/403633			Converted
10746	10746-US-CNT	13/236762	2012/0011163	8706766	Granted
10746	10746-US-PAT	10/643029	2004/0082323	8060530	Granted
10746	10746-US-PRV	60/403634			Converted
10747	10747-US-PAT	10/645283	2004/0253946	7778227	Granted
10747	10747-US-PRV	60/404913			Converted
10755	10755-US-CNT	12/723352	2010/0172302	8107483	Granted
10755	10755-US-PCT	10/477333	2004/0264465	7710984	Granted
10755	10755-US-PRV	60/429350			Converted
10767	10767-US-CNT	12/973485	2011/0103588	8090107	Granted
10767	10767-US-CNT[2]	13/304382	2012/0063599	8238558	Granted
10767	10767-US-CNT[3]	13/566653	2012/0294440	8615086	Granted
10767	10767-US-PAT	11/093954	2005/0232428	7885411	Granted
10767	10767-US-PRV	60/559092			Converted
10767	10767-US-PRV1	60/559646			Converted
10782	10782-US-CNT	11/766949	2007/0254666	7596121	Granted
10782	10782-US-CNT[2]	12/566082	2010/0008329	7986671	Granted
10782	10782-US-CNT[3]	13/176561	2011/0263291	8107437	Granted
10782	10782-US-CNT[4]	13/337501	2012/0122517	8295247	Granted
10782	10782-US-CNT[5]	13/616822	2013/0005397	8400984	Granted
10782	10782-US-PAT	10/678796	2004/0266435	7251227	Granted
10782	10782-US-PRV	60/416154			Converted
10782	10782-US-PRV1	60/416864			Converted
10789	10789-US-CNT	12/477552	2009/0239487	7869776	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10789	10789-US-PAT	10/700985	2004/0147235	7558540	Granted
10789	10789-US-PRV	60/423354			Converted
10791	10791-US-CNT	11/928848	2008/0056226	7715868	Granted
10791	10791-US-CNT[2]	12/905587	2011/0034199	8121637	Granted
10791	10791-US-PCT	10/533960	2006/0063544	7818025	Granted
10791	10791-US-PRV	60/423371			Converted
10793	10793-US-CNT	12/692263	2010/0211993	8406151	Granted
10793	10793-US-PCT	10/533957	2006/0104211	7701872	Granted
10793	10793-US-PRV	60/423355			Converted
10794	10794-US-CNT	11/936345	2008/0064450	7512424	Abandoned
10794	10794-US-CNT[2]	12/389951	2009/0156271	8131324	Abandoned
10794	10794-US-CNT[3]	13/410672	2012/0165080	8311594	Abandoned
10794	10794-US-PCT	10/533958	2006/0068832	7313419	Abandoned
10794	10794-US-PRV	60/423372			Converted
10796	10796-US-CNT	13/208684	2011/0294488		Abandoned
10796	10796-US-CNT[2]	13/547823	2013/0012183		Abandoned
10796	10796-US-PAT	10/679575	2005/0075123	8023984	Granted
10797	10797-US-PAT	10/702919	2004/0185849	8064929	Granted
10797	10797-US-PRV	60/424724			Converted
10801	10801-US-CNT	11/483445	2006/0253529	7330712	Granted
10801	10801-US-CNT[3]	13/540349	2012/0271947	8620297	Granted
10801	10801-US-CNT[4]	14/093610	2014/0087694	8995961	Granted
10801	10801-US-CNT2	12/016632	2008/0132202	8626139	Granted
10801	10801-US-PAT	10/698602	2004/0142686	7076239	Granted
10801	10801-US-PRV	60/424723			Converted
10802	10802-US-CNT	12/829555	2010/0275029	8429410	Granted
10802	10802-US-PAT	10/784024	2004/0177270		Abandoned
10802	10802-US-PRV	60/448540			Converted
10803	10803-US-CNT	12/184311	2008/0288859	8572482	Granted
10803	10803-US-PAT	10/693736	2004/0139397	7421652	Granted
10803	10803-US-PRV	60/422760			Converted
10808	10808-US-CNT	11/456025	2006/0232485	7283097	Granted
10808	10808-US-CNT[2]	11/838751	2008/0030411	7466271	Granted
10808	10808-US-CNT[3]	12/331518	2009/0091502	7916087	Granted
10808	10808-US-CNT[4]	13/038540	2011/0151949	8207896	Granted
10808	10808-US-CNT[5]	13/488101	2012/0249376	8531336	Granted
10808	10808-US-CNT[6]	13/933251	2013/0293431	8878731	Granted
10808	10808-US-CNT[7]	14/269811	2014/0240180	9397398	Granted
10808	10808-US-PAT	10/723840	2004/0201530	7224312	Granted
10809	10809-US-CNT	11/533020	2007/0115189	7239279	Granted

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10809	10809-US-PCT	10/537189	2006/0066496	7151493	Granted
10812	10812-US-CNT	12/437700	2009/0257600	7961891	Granted
10812	10812-US-PAT	10/721725	2005/0013444	7548625	Granted
10812	10812-US-PRV	60/429531			Converted
10817	10817-US-CNT	13/303214	2012/0072722	8386778	Granted
10817	10817-US-CNT[2]	13/776028	2013/0166908	9154469	Granted
10817	10817-US-PCT	10/546779	2006/0190724	8078869	Granted
10818	10818-US-CNT	12/212904	2009/0011752	7953450	Granted
10818	10818-US-CNT[2]	13/087935	2011/0195698	8295885	Granted
10818	10818-US-CNT[3]	13/610248	2013/0005323	8738087	Granted
10818	10818-US-PAT	10/732960	2004/0209650	7440778	Granted
10818	10818-US-PRV	60/432613			Converted
10823	10823-US-CIP	12/784932	2011/0130105	8428181	Granted
10823	10823-US-CNT	12/276650	2009/0074107	7852968	Granted
10823	10823-US-CNT[2]	12/942757	2011/0053533	8098761	Granted
10823	10823-US-CNT[3]	13/325895	2012/0087441	8599963	Granted
10823	10823-US-CNT[4]	13/829569	2013/0273863	8873675	Granted
10823	10823-US-PAT	10/724951	2004/0208260	7471738	Granted
10823	10823-US-PRV	60/430293			Converted
10825	10825-US-CNT	12/553285	2010/0027594	8457255	Granted
10825	10825-US-PCT	10/534735	2006/0034350	7599452	Granted
10826	10826-US-CNT	12/885232	2011/0010556	8677138	Granted
10826	10826-US-PAT	10/730183	2004/0172531	7809953	Granted
10826	10826-US-PRV	60/431737			Converted
10826	10826-US-PRV1	60/440359			Converted
10830	10830-US-CNT	10/940869	2005/0040996	7253775	Granted
10830	10830-US-CNT[3]	12/474075	2009/0231228	7961154	Granted
10830	10830-US-CNT[4]	13/156728	2011/0248896	8125397	Granted
10830	10830-US-CNT[5]	13/358126	2012/0119967	8223078	Granted
10830	10830-US-CNT[6]	13/529531	2012/0268339	8339323	Granted
10830	10830-US-CNT[7]	13/686518	2013/0082892	8525743	Granted
10830	10830-US-CNT2	11/774383	2009/0009419	7541991	Granted
10830	10830-US-PAT	10/317659	2004/0113847	6791500	Granted
10832	10832-US-CNT	11/369949	2006/0152511		Abandoned
10832	10832-US-PAT	10/721313	2004/0160445	7034835	Granted
10832	10832-US-PRV	60/429570			Converted
10832	10832-US-PRV1	60/447022			Converted
10833	10833-US-PAT	10/719455	2004/0161979	6875049	Granted
10833	10833-US-PRV	60/429510			Converted
10834	10834-US-DIV	11/195234	2005/0263323	7085139	Abandoned

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10834	10834-US-PAT	10/721696	2004/0140414	6942500	Abandoned
10834	10834-US-PRV	60/429535			Converted
10835	10835-US-CNT	11/274121	2006/0066499	7196671	Abandoned
10835	10835-US-CNT[4]	12/776975	2010/0220032	8068060	Abandoned
10835	10835-US-CNT2	11/676342	2007/0176837	7394434	Abandoned
10835	10835-US-CNT3	12/128782	2008/0222877	7739784	Abandoned
10835	10835-US-PAT	10/723838	2004/0160379	7053842	Abandoned
10835	10835-US-PRV	60/430082			Converted
10836	10836-US-CNT	11/107974	2005/0237263	7190314	Abandoned
10836	10836-US-CNT[4]	12/420537	2009/0195476	8018388	Abandoned
10836	10836-US-CNT2	11/671211	2007/0126646	7403163	Abandoned
10836	10836-US-CNT3	12/142478	2008/0246687	7525495	Abandoned
10836	10836-US-PAT	10/723839	2004/0160381		Abandoned
10836	10836-US-PRV	60/430078			Converted
10837	10837-US-PAT	10/366090	2004/0104883		Abandoned
10837	10837-US-PRV	60/430371			Converted
10839	10839-US-CNT	12/352340	2009/0125417		Abandoned
10839	10839-US-PAT	10/359958	2004/0107146	7478057	Granted
10839	10839-US-PRV	60/430370			Converted
10841	10841-US-CNT	12/838542	2010/0281470		Abandoned
10841	10841-US-PCT	10/536745	2006/0020932	7761861	Granted
10842	10842-US-PCT	10/537284	2006/0026236	8732245	Abandoned
10842	10842-US-PRV	60/430369			Converted
10843	10843-US-CNT	12/403246	2009/0176499		Abandoned
10843	10843-US-PAT	10/772024	2005/0003803	7515915	Granted
10844	10844-US-PAT	10/725689	2004/0213355	7356102	Granted
10844	10844-US-PRV	60/430955			Converted
10848	10848-US-CNT	12/419534	2009/0190513		Abandoned
10848	10848-US-PAT	10/737511	2004/0213195	7525941	Granted
10848	10848-US-PRV	60/433600			Converted
10851	10851-US-DIV	11/410171	2006/0211434	8195206	Granted
10851	10851-US-PAT	10/734502	2004/0224704	7340264	Granted
10851	10851-US-PRV	60/433459			Converted
10852	10852-US-CNT	11/868116	2008/0025244	7852862	Granted
10852	10852-US-CNT[2]	12/947907	2011/0064064	8576860	Granted
10852	10852-US-CNT[3]	14/043883	2014/0036896	8989200	Granted
10852	10852-US-PAT	10/324481	2004/0120293	7296067	Granted
10862	10862-US-CNT	12/471148	2009/0271501		Abandoned
10862	10862-US-PAT	10/745120	2004/0215700	7555538	Granted
10862	10862-US-PAT1	10/744676	2004/0220998		Abandoned

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10862	10862-US-PRV	60/436011			Converted
10862	10862-US-PRV1	60/503665			Converted
10862	10862-US-PRV2	60/503706			Converted
10864	10864-US-CNT	11/595744	2007/0057920	7791592	Granted
10864	10864-US-CNT[2]	12/849919	2010/0309132	8026901	Granted
10864	10864-US-CNT[3]	13/214694	2011/0298707	8194042	Granted
10864	10864-US-CNT[4]	13/461711	2012/0213446	8384673	Granted
10864	10864-US-CNT[5]	13/741822	2013/0127732	8836644	Granted
10864	10864-US-PAT	10/339198	2004/0145570	7167178	Granted
10868	10868-US-CNT	11/485531	2006/0252415	7324830	Granted
10868	10868-US-CNT[3]	13/034158	2011/0149864	8208904	Granted
10868	10868-US-CNT[4]	13/488654	2012/0236796	8731528	Granted
10868	10868-US-CNT[5]	14/280921	2014/0256333	9008630	Granted
10868	10868-US-CNT2	11/962334	2008/0102801	7917126	Granted
10868	10868-US-PAT	10/698603	2004/0157590	7103333	Granted
10868	10868-US-PRV	60/440363			Converted
10874	10874-US-CNT	12/128940	2008/0280587	8036633	Granted
10874	10874-US-CNT[2]	13/227592	2011/0319050	8594615	Granted
10874	10874-US-PAT	10/762007	2004/0242191	7395046	Granted
10874	10874-US-PRV	60/441504			Converted
10877	10877-US-CNT	12/393240	2009/0221272	7646897	Granted
10877	10877-US-CNT[2]	12/685392	2010/0112984	7881507	Granted
10877	10877-US-CNT[3]	13/018257	2011/0182487	8160313	Granted
10877	10877-US-PAT	10/849928	2005/0259851	7505611	Granted
10878	10878-US-CNT	13/423966	2012/0233681	8474029	Granted
10878	10878-US-PAT	10/819278	2005/0138390	8166530	Granted
10879	10879-US-PAT	10/772478	2004/0224672	7856422	Granted
10880	10880-US-CNT	12/115233	2008/0207208	8160593	Granted
10880	10880-US-CNT[2]	13/423771	2012/0178406		Abandoned
10880	10880-US-PAT	10/773468	2005/0020270	7383041	Granted
10881	10881-US-DIV	12/899855	2011/0022948		Abandoned
10881	10881-US-PAT	10/772476	2004/0230640		Abandoned
10886	10886-US-CNT	12/358092	2009/0131051	8447297	Granted
10886	10886-US-PAT	10/776986	2005/0037791	7499703	Granted
10886	10886-US-PRV	60/447283			Converted
10887	10887-US-CNT	11/766893	2007/0253368	7454220	Granted
10887	10887-US-CNT[3]	12/947582	2011/0065470	8064940	Granted
10887	10887-US-CNT2	12/272654	2009/0137261	7860522	Granted
10887	10887-US-PAT	10/775609	2005/0054358	7248887	Granted
10888	10888-US-CNT	11/942164	2008/0071798	7590722	Granted

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10888	10888-US-PAT	10/776900	2005/0044081	7321930	Granted
10892	10892-US-CNT	12/246716	2009/0031324	8069451	Granted
10892	10892-US-PAT	10/778547	2004/0194105	7448043	Granted
10892	10892-US-PRV	60/447429			Converted
10892	10892-US-PRV1	60/503777			Converted
10893	10893-US-PAT	10/778548	2004/0215830		Abandoned
10893	10893-US-PRV	60/447430			Converted
10897	10897-US-CNT	10/965331	2005/0046391	7034503	Granted
10897	10897-US-PAT	10/372446	2004/0164707	6833686	Granted
10914	10914-US-CNT	12/542940	2009/0307365	8037199	Abandoned
10914	10914-US-PAT	10/797421	2005/0009538	7590748	Abandoned
10914	10914-US-PRV	60/453510			Converted
10917	10917-US-PAT	10/807957	2004/0192371		Abandoned
10918	10918-US-CNT	12/188647	2008/0300000	7623878	Granted
10918	10918-US-CNT[2]	12/552787	2009/0325552	8538467	Granted
10918	10918-US-CNT[3]	13/965425	2013/0331133	8868116	Granted
10918	10918-US-CNT[4]	14/518640	2015/0038182	9491290	Granted
10918	10918-US-PCT	10/490402	2005/0176409	7424302	Granted
10919	10919-US-CNT	12/360418	2009/0137156	7769413	Granted
10919	10919-US-CNT[2]	12/831490	2010/0270971	8280455	Granted
10919	10919-US-PAT	10/807791	2004/0251873	7489952	Granted
10919	10919-US-PRV	60/457030			Converted
10920	10920-US-PCT	10/551422	2006/0209753	8199704	Granted
10923	10923-US-CNT	11/005947	2005/0082148	7057120	Granted
10923	10923-US-CNT1	11/437048	2006/0207865	7304254	Granted
10923	10923-US-PAT	10/410094	2004/0200700	6828518	Granted
10925	10925-US-CNT	11/074556	2005/0148238	7258550	Granted
10925	10925-US-PAT	10/411442	2004/0203263	6969263	Granted
10927	10927-US-CNT	12/403497	2009/0167765	7999805	Granted
10927	10927-US-CNT[2]	13/180075	2011/0267336	8194070	Granted
10927	10927-US-PAT	10/825130	2004/0208370	7525544	Granted
10929	10929-US-CNT	11/590200	2007/0176835	7400300	Granted
10929	10929-US-CNT[3]	13/205383	2011/0291894		Abandoned
10929	10929-US-CNT2	12/138704	2008/0246668	8018386	Granted
10929	10929-US-PAT	10/864145	2005/0001769	7148846	Granted
10947	10947-US-CNT	11/626012	2007/0116053	7349696	Abandoned
10947	10947-US-PAT	10/431264	2004/0224683	7190955	Abandoned
10954	10954-US-CNT	11/344753	2006/0125698	7256741	Granted
10954	10954-US-CNT2	11/777448	2007/0257846	7369089	Granted
10954	10954-US-PAT	10/844685	2004/0227680	7023387	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
10955	10955-US-CNT	11/688364	2007/0173228	7778626	Abandoned
10955	10955-US-CNT[2]	12/834687	2010/0279654	8811943	Abandoned
10955	10955-US-PAT	10/430867	2004/0224663	7212805	Abandoned
10957	10957-US-CNT	12/048746	2008/0159257	7821927	Granted
10957	10957-US-PAT	10/839388	2005/0030947	7366093	Granted
10957	10957-US-PRV	60/468451			Converted
10958	10958-US-PAT	10/434022	2004/0224669		Abandoned
10960	10960-US-CNT	11/340829	2006/0211417	7257399	Granted
10960	10960-US-PAT	10/434021	2004/0224686	7027811	Granted
10966	10966-US-CNT	13/283167	2012/0046059		Abandoned
10966	10966-US-PCT	11/272056	2006/0121910		Abandoned
10967	10967-US-PCT	11/272049	2006/0121899	7664497	Granted
10970	10970-US-CNT	11/531621	2007/0008292	7688311	Granted
10970	10970-US-PAT	10/437626	2004/0227733	7109973	Granted
10972	10972-US-CNT	12/491466	2009/0257442	7961748	Granted
10972	10972-US-CNT[2]	13/157595	2011/0238771	8885658	Granted
10972	10972-US-PAT	10/874277	2004/0264436	7570655	Granted
10976	10976-US-CNT	11/851586	2008/0005523	8046556	Granted
10976	10976-US-PAT	10/874291	2004/0268078	7284099	Granted
10977	10977-US-PAT	10/447093	2004/0242279		Abandoned
10981	10981-US-PAT	10/853196	2005/0015505		Abandoned
10983	10983-US-CNT	11/843238	2007/0287485	9203646	Granted
10983	10983-US-PAT	10/860386	2007/0112915	7277719	Granted
11009	11009-US-PAT	10/869345	2004/0260840	8423988	Granted
11018	11018-US-CNT	12/016679	2008/0117958	7646757	Granted
11018	11018-US-CNT[2]	12/684662	2010/0110926	7912025	Granted
11018	11018-US-PAT	10/880390	2004/0264406	7346028	Granted
11019	11019-US-CNT	11/603799	2007/0094451	7290090	Granted
11019	11019-US-CNT2	11/860159	2008/0016283	7506103	Granted
11019	11019-US-PAT	10/852049	2004/0268049	7159076	Granted
11019	11019-US-PRV	60/482180			Converted
11030	11030-US-CNT	12/822524	2010/0261439	8078121	Abandoned
11030	11030-US-DIV	11/625872	2007/0135183	7764933	Abandoned
11030	11030-US-PAT	10/890325	2005/0011659	7256355	Abandoned
11031	11031-US-PAT	10/891515	2005/0013101	7239503	Granted
11032	11032-US-PAT	10/887885	2005/0024240		Abandoned
11042	11042-US-PAT	10/626160	2005/0017906	6980173	Granted
11046	11046-US-PAT	10/631111	2005/0023427	7119463	Granted
11050	11050-US-CNT	12/031237	2008/0153547	7983704	Granted
11050	11050-US-CNT[2]	13/160893	2011/0244921	8463322	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11050	11050-US-PAT	10/903555	2005/0070321	7389119	Granted
11051	11051-US-PAT	10/695137	2005/0026568		Abandoned
11051	11051-US-PRV	60/491878			Converted
11052	11052-US-CNT	11/342577	2006/0118400	7459651	Granted
11052	11052-US-CNT[2]	12/325319	2009/0134002	7923649	Granted
11052	11052-US-CNT[3]	13/037879	2011/0147189	8076602	Granted
11052	11052-US-PAT	10/912338	2005/0045465	7026566	Granted
11053	11053-US-PAT	10/911614	2005/0041139		Abandoned
11054	11054-US-CNT	13/723353	2013/0113419	9531207	Granted
11054	11054-US-PAT	10/787173	2005/0192045	8346324	Granted
11056	11056-US-CNT	11/960812	2008/0097690	7672776	Granted
11056	11056-US-CNT[2]	12/627366	2010/0076678	7917284	Granted
11056	11056-US-CNT[3]	13/040337	2011/0163951	8086397	Granted
11056	11056-US-CNT[4]	13/313291	2012/0075306	8290707	Granted
11056	11056-US-CNT[5]	13/651758	2013/0044235	8600669	Granted
11056	11056-US-PAT	10/911583	2005/0033512	7340342	Granted
11057	11057-US-CNT	11/831397	2008/0294731	7894425	Granted
11057	11057-US-CNT[3]	13/343400	2012/0102129	8553601	Granted
11057	11057-US-CNT2	11/831497	2007/0268849	8094592	Granted
11057	11057-US-PAT	10/780949	2005/0041652	7289495	Granted
11057	11057-US-PAT1	10/781195	2005/0030913	7280537	Granted
11057	11057-US-PRV	60/493118			Converted
11063	11063-US-CNT	11/459227	2007/0203994	7689656	Granted
11063	11063-US-CNT[2]	12/728364	2010/0179999	8364769	Granted
11063	11063-US-PAT	10/779350	2005/0033812	7111047	Granted
11063	11063-US-PRV	60/493763			Converted
11066	11066-US-CNT	12/707690	2010/0153493		Abandoned
11066	11066-US-CNT[2]	12/843915	2010/0293259		Abandoned
11066	11066-US-CNT[3]	13/210872	2011/0302259	8285805	Granted
11066	11066-US-CNT[4]	13/251570	2012/0030296		Abandoned
11066	11066-US-CNT[5]	13/351698	2012/0131659		Abandoned
11066	11066-US-CNT[6]	13/607952	2013/0007156	8463864	Granted
11066	11066-US-PAT	10/777936	2005/0038897	7685302	Granted
11066	11066-US-PAT1	10/777871	2005/0033847	8032593	Granted
11066	11066-US-PAT2	10/777577	2005/0030939	8135759	Granted
11066	11066-US-PAT3	10/778709	2005/0036513	7774486	Granted
11066	11066-US-PAT4	10/777731	2005/0041686	8028078	Granted
11066	11066-US-PRV	60/493163			Converted
11068	11068-US-PAT	10/779402	2005/0033809		Abandoned
11068	11068-US-PRV	60/493854			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11069	11069-US-PAT	10/778613	2005/0033841	8549078	Granted
11069	11069-US-PRV	60/493625			Converted
11070	11070-US-CNT	12/795965	2010/0250720	8001202	Granted
11070	11070-US-CNT[2]	13/210001	2011/0302281	8166125	Granted
11070	11070-US-CNT[3]	13/442209	2012/0198011	8533277	Granted
11070	11070-US-PAT	10/776423	2005/0033830	7739336	Granted
11070	11070-US-PRV	60/493624			Converted
11071	11071-US-CNT	12/550575	2009/0319452	8028034	Granted
11071	11071-US-CNT[2]	13/225800	2011/0321140		Abandoned
11071	11071-US-PAT	10/778468	2005/0038858	7603419	Granted
11071	11071-US-PRV	60/494256			Converted
11072	11072-US-CNT	12/102083	2008/0195667	7739343	Granted
11072	11072-US-CNT[2]	12/814703	2010/0287252	8065377	Granted
11072	11072-US-CNT[3]	13/296265	2012/0059894	8447821	Granted
11072	11072-US-CNT[4]	13/895880	2013/0254860		Abandoned
11072	11072-US-PAT	10/778590	2005/0038859	7373386	Granted
11072	11072-US-PRV	60/494233			Converted
11073	11073-US-CNT	11/199052	2005/0283520	7475115	Granted
11073	11073-US-CNT[2]	12/325834	2009/0083387	8838702	Granted
11073	11073-US-PAT	10/778446	2005/0038857	6959325	Granted
11073	11073-US-PRV	60/494257			Converted
11074	11074-US-PAT	10/777959	2005/0038915	7289975	Granted
11074	11074-US-PRV	60/494235			Converted
11075	11075-US-CNT	12/621119	2010/0061310	8205002	Granted
11075	11075-US-PAT	10/777958	2005/0036498	7644170	Granted
11075	11075-US-PRV	60/494326			Converted
11085	11085-US-CNT	11/459239	2006/0294202	7418520	Granted
11085	11085-US-CNT[4]	12/643094	2010/0162380		Abandoned
11085	11085-US-CNT[5]	12/870544	2010/0325210	8145709	Granted
11085	11085-US-CNT[6]	13/423992	2012/0179747	8352548	Granted
11085	11085-US-CNT1	11/459204	2006/0288121	7418477	Granted
11085	11085-US-CNT2	12/195467	2008/0313354	7644185	Granted
11085	11085-US-CNT3	12/190070	2008/0307051	7788410	Granted
11085	11085-US-PAT	10/775962	2005/0038896	7107357	Granted
11085	11085-US-PAT1	10/775674	2005/0038873	7107310	Granted
11085	11085-US-PRV	60/494325			Converted
11086	11086-US-CNT	11/749992	2008/0042966		Abandoned
11086	11086-US-PAT	10/785638	2005/0035940	7233310	Granted
11086	11086-US-PRV	60/494368			Converted
11088	11088-US-CNT	12/062415	2008/0187138	7953226	Granted

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11088	11088-US-CNT[2]	13/012662	2011/0116633	8175275	Granted
11088	11088-US-PAT	10/916658	2005/0036619	7826617	Granted
11088	11088-US-PRV	60/495559			Converted
11090	11090-US-PAT	10/916807	2005/0086466		Abandoned
11090	11090-US-PRV	60/495556			Converted
11100	11100-US-CNT	13/491094	2012/0246461	8533452	Granted
11100	11100-US-PAT	10/925534	2005/0154876	8205091	Granted
11100	11100-US-PRV	60/497545			Converted
11101	11101-US-CNT	13/618110	2013/0013714	8650258	Granted
11101	11101-US-PAT	10/916098	2005/0071508	8335823	Granted
11101	11101-US-PRV	60/494380			Converted
11104	11104-US-CNT	12/697955	2010/0146270	8347089	Granted
11104	11104-US-CNT[2]	13/721516	2013/0133065	8862875	Granted
11104	11104-US-PAT	10/832155	2005/0039004	7657741	Granted
11104	11104-US-PRV	60/494623			Converted
11105	11105-US-CNT	11/511168	2006/0293035	8521130	Granted
11105	11105-US-CNT[2]	13/950924	2014/0031008	8874080	Granted
11105	11105-US-CNT[3]	14/480000	2016/0345290	9699762	Granted
11105	11105-US-PAT	10/832583	2005/0054334	7123900	Granted
11105	11105-US-PRV	60/494621			Converted
11107	11107-US-CNT	12/785759	2010/0235628	8271782	Granted
11107	11107-US-CNT[2]	13/586703	2012/0311323	8601261	Granted
11107	11107-US-CNT[3]	14/068902	2014/0059342	9083699	Granted
11107	11107-US-PAT	10/817070	2005/0038991	7725711	Granted
11107	11107-US-PRV	60/494369			Converted
11110	11110-US-CNT	11/485532	2006/0252454	7805159	Granted
11110	11110-US-CNT2	11/837922	2007/0275753	8346295	Granted
11110	11110-US-PAT	10/658952	2005-0054376	7096036	Granted
11110	11110-US-PAT1	11/031407	2006/0154689	7272411	Granted
11119	11119-US-PAT	10/663598	2005-0059392		Abandoned
11121	11121-US-CNT	12/172480	2008/0276204	9373279	Granted
11121	11121-US-PAT	10/663590	2005/0060669		Abandoned
11123	11123-US-CNT	11/371685	2006/0154651	7493111	Granted
11123	11123-US-CNT[2]	12/350989	2009/0124247	7899449	Granted
11123	11123-US-CNT[3]	13/009103	2011/0111744	8099092	Granted
11123	11123-US-DIV[3]	13/327844	2012/0088494	8565748	Granted
11123	11123-US-PAT	10/663582	2005/0059393	7035630	Granted
11125	11125-US-CNT	11/940050	2008/0062934	8214536	Granted
11125	11125-US-CNT[2]	13/464022	2013/0114504		Abandoned
11125	11125-US-PAT	10/663599	2005/0059397	7318111	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11127	11127-US-CNT	12/044501	2008/0214117	7599687	Granted
11127	11127-US-CNT[2]	12/559010	2010/0004899	8340590	Granted
11127	11127-US-PAT	10/663591	2005/0059354	7359701	Granted
11129	11129-US-CNT	13/164419	2011/0244864	8504094	Granted
11129	11129-US-CNT[2]	13/951101	2013/0310032	9072034	Granted
11129	11129-US-CNT[3]	14/740978	2015/0304923	9414278	Granted
11129	11129-US-CNT[4]	15/231145	2016/0345251	9642076	Granted
11129	11129-US-CNT[5]	15/478300	2017/0208517	9955392	Granted
11129	11129-US-PAT	10/693346	2005/0090277	7970429	Granted
11130	11130-US-CNT	11/768047	2007/0249377	7911987	Granted
11130	11130-US-CNT[2]	12/783202	2010/0227633	8345601	Granted
11130	11130-US-CNT[3]	12/879657	2011/0009134	8094594	Granted
11130	11130-US-CNT[4]	13/718913	2013/0109418	8688152	Granted
11130	11130-US-CNT[5]	14/199427	2014/0213309	9354777	Granted
11130	11130-US-PAT	10/942167	2005/0058094	7236472	Granted
11130	11130-US-PRV	60/503367			Converted
11131	11131-US-CIP	11/962145	2008/0096595	9098169	Granted
11131	11131-US-CNT	14/159170	2014/0137000	10261654	Granted
11131	11131-US-CNT[2]	16/380528	2019/0235731	10664130	Granted
11131	11131-US-CNT[3]	16/882172	2020/0285373	11175794	Granted
11131	11131-US-PAT	10/942749	2005/0124363	8750914	Granted
11131	11131-US-PAT1	10/942305	2005/0113118	7315747	Granted
11131	11131-US-PRV	60/503366			Converted
11137	11137-US-CNT	12/846321	2010/0313193	8191080	Granted
11137	11137-US-PAT	10/787951	2005/0193382	7793281	Granted
11137	11137-US-PRV	60/503979			Converted
11139	11139-US-CNT	12/968776	2011/0083117	8271940	Granted
11139	11139-US-PAT	10/787932	2005/0125771	7877725	Granted
11139	11139-US-PRV	60/503978			Converted
11141	11141-US-CNT	12/036942	2008/0148139		Abandoned
11141	11141-US-PAT	10/787950	2005/0060686	7350215	Granted
11141	11141-US-PRV	60/503980			Converted
11147	11147-US-CNT	12/897394	2011/0021204	8099118	Granted
11147	11147-US-CNT[2]	13/328906	2012/0088513	8335530	Granted
11147	11147-US-PAT	10/667983	2005/0064891	7809387	Granted
11150-1	11150-1-US-PAT	10/839768	2005/0249241	7852876	Granted
11152	11152-US-CNT	12/827493	2010/0265917	7948950	Granted
11152	11152-US-CNT[2]	13/085532	2011/0188475	8149789	Granted
11152	11152-US-CNT[3]	13/409780	2012/0155433	8385292	Granted
11152	11152-US-CNT[4]	13/613147	2013/0003704	8493939	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11152	11152-US-PAT	10/915994	2005/0036459	7773561	Granted
11155	11155-US-PAT	10/673810	2005/0070252	7684788	Granted
11157	11157-US-PAT	10/674023	2005/0068919	8599874	Granted
11157-1	11157-1-US-PAT	10/674113	2005/0070274	7389108	Granted
11160	11160-US-CNT	12/276066	2009/0075658	7899461	Granted
11160	11160-US-CNT[2]	13/012531	2011/0117918	8090375	Granted
11160	11160-US-CNT[3]	13/340888	2012/0108242	8682333	Granted
11160	11160-US-PAT	10/674109	2005/0070253	7471948	Granted
11162	11162-US-CNT	12/121931	2008/0270999	8499282	Granted
11162	11162-US-PAT	10/787949	2005/0076344	7380237	Granted
11162	11162-US-PRV	60/508203			Converted
11164	11164-US-CNT	12/717243	2010/0161767	8065679	Granted
11164	11164-US-PAT	10/787947	2005/0075068	7707574	Granted
11164	11164-US-PRV	60/508111			Converted
11165	11165-US-PAT	10/679577	2005/0073446		Abandoned
11168	11168-US-CNT	11/837806	2008/0026701	8073403	Granted
11168	11168-US-PAT	10/681714	2005-0079884-A1	7277720	Granted
11170	11170-US-CNT	11/944694	2008/0069140	7778225	Granted
11170	11170-US-CNT[2]	12/829767	2010/0265860		Abandoned
11170	11170-US-PAT	10/681763	2005/0078638	7315520	Granted
11173	11173-US-CNT	12/407662	2009/0180442	8442532	Granted
11173	11173-US-PAT	10/962057	2005/0078636	7518994	Granted
11173	11173-US-PRV	60/509518			Converted
11176	11176-US-CNT	11/445664	2006/0214638	7233127	Granted
11176	11176-US-CNT[3]	12/880801	2010/0332233	8258754	Granted
11176	11176-US-CNT[4]	13/567150	2012/0295574	9667065	Granted
11176	11176-US-CNT2	11/746184	2007/0205745	7629765	Granted
11176	11176-US-DIV[2]	12/608505	2010/0060238	7825631	Granted
11176	11176-US-PAT	10/688294	2005/0085277	7057372	Granted
11190	11190-US-CNT	11/959081	2008/0144589	9615311	Granted
11190	11190-US-PAT	10/696806	2005/0094593	7395083	Granted
11192	11192-US-CNT	11/371386	2006/0148532	7266395	Granted
11192	11192-US-CNT[2]	11/779427	2007/0275768	8229456	Granted
11192	11192-US-CNT[3]	13/535697	2012/0270569	8335521	Granted
11192	11192-US-CNT[4]	13/678123	2013/0072229		Abandoned
11192	11192-US-PAT	10/696975	2005/0157689	7035618	Granted
11194	11194-US-PAT	10/696956	2005/0097175		Abandoned
11203	11203-US-CNT	11/585015	2007/0037592	7996043	Granted
11203	11203-US-DIV	13/174905	2011/0263279	8615559	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11203	11203-US-PAT	10/700979	2005/0096093	7164937	Granted
11205	11205-US-CNT	11/674738	2008/0081622	7689219	Granted
11205	11205-US-CNT[2]	12/704699	2010/0203888	9326227	Granted
11205	11205-US-PAT	10/987658	2005/0227720	7197312	Reissued (Inactive Parent)
11205	11205-US-PRV	60/519141			Converted
11205	11205-US-REI	12/412963		RE42392	Granted
11206	11206-US-CNT	12/126223	2008/0220800	7747266	Granted
11206	11206-US-CNT[2]	12/813136	2011/0134815	8107985	Granted
11206	11206-US-CNT[3]	13/349842	2012/0115478	8275401	Granted
11206	11206-US-PAT	10/987557	2005/0227719	7398089	Reissued (Inactive Parent)
11206	11206-US-PRV	60/519150			Converted
11206	11206-US-REI	12/552744		RE43523	Granted
11214	11214-US-CNT	11/683283	2008/0108331	7689256	Granted
11214	11214-US-CNT[2]	12/704052	2010/0144308	8045969	Granted
11214	11214-US-CNT[3]	13/150703	2011/0230163	8238871	Granted
11214	11214-US-CNT[4]	13/554222	2012/0282882	8457620	Granted
11214	11214-US-CNT[5]	13/889884	2013/0244610	8731514	Granted
11214	11214-US-CNT[6]	14/277324	2014/0248850	9277427	Granted
11214	11214-US-PAT	10/704846	2005/0101287	7206567	Granted
11216	11216-US-PAT	10/704507	2005/0101298	7738867	Granted
11218	11218-US-DIV	11/675318	2007/0135141		Abandoned
11218	11218-US-PAT	10/704839	2005/0101299	7194277	Granted
11225	11225-US-CNT	14/610564	2015/0146602	9198116	Granted
11225	11225-US-CNT[2]	14/941388	2016/0081059	9967859	Granted
11225	11225-US-CNT[3]	15/952761	2018/0234946	10368337	Granted
11225	11225-US-CNT[4]	16/506718	2019/0335422		Allowed (Notice of Allowance)
11225	11225-US-PAT	10/993278	2005/0232209	8964707	Granted
11225	11225-US-PRV	60/523515			Converted
11226	11226-US-CNT	12/197455	2008/0313705	7848523	Granted
11226	11226-US-CNT[2]	12/495909	2009/0270049	8380236	Granted
11226	11226-US-CNT[3]	12/699205	2010/0136986	8825063	Granted
11226	11226-US-PAT	10/992339	2005/0128997	7684805	Granted
11226	11226-US-PAT1	10/992361	2005/0144485	7466825	Granted
11226	11226-US-PCT	10/580021	2007/0254605	7570966	Granted
11226	11226-US-PCT2	10/580020	2007/0280479	7882543	Granted
11226	11226-US-PRV	60/523466			Converted
11231	11231-US-CNT	11/669777	2008/0132228	7526313	Granted
11231	11231-US-CNT[2]	12/419129	2009/0191864		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11231	11231-US-PAT	10/992934	2005/0159153	7187923	Granted
11231	11231-US-PRV	60/523644			Converted
11247	11247-US-PAT	10/999940	20050124331	7493109	Granted
11247	11247-US-PRV	60/526322			Converted
11248	11248-US-PAT	10/727847	2005/0124325	7409204	Granted
11250	11250-US-PAT	10/728054	2005/0140653		Abandoned
11253	11253-US-CNT	12/471718	2009/0235205	7962559	Granted
11253	11253-US-CNT[2]	12/813331	2010/0250694	8843569	Granted
11253	11253-US-PAT	10/730682	2005/0138124	7555522	Granted
11257	11257-US-CNT	12/470896	2009/0232055	7684363	Granted
11257	11257-US-PAT	10/996664	2005/0122930	7545767	Granted
11257	11257-US-PRV	60/527335			Converted
11258	11258-US-PAT	10/786961	2005/0124332		Abandoned
11258	11258-US-PRV	60/527952			Converted
11259	11259-US-CNT	11/350219	2006/0128358	7139549	Granted
11259	11259-US-CNT[4]	13/165470	2011/0250863	8467765	Granted
11259	11259-US-CNT2	11/591230	2007/0054653	7412225	Granted
11259	11259-US-CNT3	12/021915	2008/0139168	7991383	Granted
11259	11259-US-PAT	10/730144	2005/0124316	7050785	Granted
11261	11261-US-PAT	11/006380	2005/0141464	7436791	Granted
11261	11261-US-PRV	60/527868			Converted
11262	11262-US-CNT	12/013814	2009/0131083		Abandoned
11262	11262-US-CNT[3]	13/051659	2011/0165894	8457660	Granted
11262	11262-US-CNT2	11/955008	2008/0096585	7933613	Granted
11262	11262-US-PAT	11/006090	2005/0201311	7346019	Granted
11262	11262-US-PAT1	11/007370	2005/0124358	7333821	Granted
11262	11262-US-PRV	60/527865			Converted
11293	11293-US-CNT	11/460914	2006/0258393	7447520	Granted
11293	11293-US-CNT[3]	13/849922	2013/0225241	9002407	Granted
11293	11293-US-CNT2	12/247868	2009/0042599	8406805	Granted
11293	11293-US-PAT	10/788055	2005/0130642	7103388	Granted
11293	11293-US-PRV	60/529969			Converted
11294	11294-US-PAT	10/787783	2005/0130641	7373142	Abandoned
11294	11294-US-PRV	60/530095			Converted
11295	11295-US-CNT	12/433613	2009/0213088	8255001	Granted
11295	11295-US-CNT[2]	13/572439	2012/0309459	9031615	Granted
11295	11295-US-PAT	10/787785	2005/0129241	7536206	Abandoned
11295	11295-US-PRV	60/529951			Converted
11296	11296-US-DIV	14/716762	2015/0269366		Abandoned Decision

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11296	11296-US-PAT	10/739719	2005/0137983		Abandoned
11299	11299-US-CNT	12/841400	2011/0016462	8683347	Granted
11299	11299-US-PAT	10/740049	2005/0138616	7783981	Granted
11302	11302-US-PAT	10/931265	2005/0169210	8391204	Granted
11303	11303-US-PAT	10/931263	2005/0157655	7411912	Granted
11312	11312-US-CNT	12/435765	2009/0238146	7835335	Granted
11312	11312-US-CNT[2]	12/900672	2011/0026489	8483180	Granted
11312	11312-US-PAT	10/747979	2005/0143061	7539170	Granted
11324	11324-US-CNT	11/752784	2007/0218947	7536185	Granted
11324	11324-US-CNT2	11/968959	2008/0102833	9510183	Granted
11324	11324-US-PAT	10/787901	2005/0148333	7328016	Granted
11324	11324-US-PRV	60/534737			Converted
11325	11325-US-PAT	10/787065	2005/0148332	7164912	Granted
11325	11325-US-PRV	60/534811			Converted
11326	11326-US-PAT	10/786559	2005/0147060	7171203	Abandoned
11326	11326-US-PRV	60/534821			Converted
11327	11327-US-CNT	12/369380	2009/0149174	8116765	Granted
11327	11327-US-CNT[2]	13/348440	2012/0108235	8688109	Granted
11327	11327-US-PAT	10/755812	2005/0153691	7509122	Granted
11349	11349-US-CNT	11/972332	2008/0107088	7899419	Granted
11349	11349-US-CNT[2]	13/036936	2011/0149917	8090331	Granted
11349	11349-US-CNT[3]	13/752007	2013/0142220	8626094	Granted
11349	11349-US-DIV[2]	13/308220	2012/0069929	8385862	Granted
11349	11349-US-PAT	10/760060	2005/0159118	7333784	Granted
11353	11353-US-CNT	12/235912	2009/0054063	7769373	Abandoned
11353	11353-US-PAT	10/760323	2005/0159147	7437153	Abandoned
11358	11358-US-PAT	10/752802	2005/0148299	7610014	Granted
11361	11361-US-CNT	12/193934	2008/0305776	8051987	Granted
11361	11361-US-PAT	11/017560	2005/0164693	7430581	Granted
11361	11361-US-PRV	60/536461			Converted
11363	11363-US-PAT	10/754736	2005/0164683		Abandoned
11363-1	11363-1-US-CNT	12/050352	2008/0160981	8000713	Granted
11363-1	11363-1-US-CNT[2]	13/178309	2011/0269443	8526962	Granted
11363-1	11363-1-US-PAT	10/754735	2005/0153700	7346353	Granted
11369	11369-US-CNT	11/745935	2007/0238479	7526305	Granted
11369	11369-US-CNT[2]	12/412534	2009/0181711	7885615	Granted
11369	11369-US-PAT	10/728189	2005/0124364	7231225	Granted
11376	11376-US-CNT	11/735019	2007/0245337	8677341	Abandoned
11376	11376-US-PAT	10/765512	2005/0166200	7222340	Abandoned
11379	11379-US-PAT	10/765511	2005/0166199	8418162	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11422	11422-US-CNT	12/125463	2008/0222118	8285712	Granted
11422	11422-US-CNT[2]	13/613138	2013/0006970	8626751	Granted
11422	11422-US-PAT	10/768318	US 2005/0169213 A1	7383250	Granted
11425	11425-US-CNT	13/285548	2012/0159164	8607326	Granted
11425	11425-US-CNT[2]	14/100994	2014/0115665	9325647	Granted
11425	11425-US-PAT	10/805932	2005/0210289	8050653	Granted
11428	11428-US-PAT	10/776004	2005/0177632	8126842	Granted
11428-1	11428-1-US-PAT	10/775820	2005/0176453	7457631	Granted
11428-2	11428-2-US-PAT	10/775825	2005/0181790		Abandoned
11428-3	11428-3-US-PAT	10/775819	2005/0186975		Abandoned
11428-4	11428-4-US-PAT	10/775817	2005/0181789		Abandoned
11428-5	11428-5-US-PAT	10/776006	2006/0080427		Abandoned
11446	11446-US-PAT	10/832473	2005/0237980	7382752	Granted
11452	11452-US-CNT	12/233415	2009/0019339	8296631	Granted
11452	11452-US-PAT	10/992610	2005/0216817	7434147	Granted
11452	11452-US-PRV	60/555862			Converted
11458	11458-US-CNT	12/149896	2008/0208921	7725734	Granted
11458	11458-US-PAT	11/288417	2007/0124818	7389426	Granted
11463	11463-US-CNT	12/014550	2008/0132227	7912000	Granted
11463	11463-US-CNT[2]	12/337314	2009/0098879	8009618	Granted
11463	11463-US-CNT[3]	13/028073	2011/0136487	8385270	Granted
11463	11463-US-PAT	10/774307	2005/0175033	7480267	Granted
11463	11463-US-PAT1	10/774059	2005/0174977	7339904	Granted
11463	11463-US-PAT2	10/774306	2005/0175034	7525935	Granted
11481	11481-US-CNT	13/302524	2012/0072651	8347025	Granted
11481	11481-US-DIV	12/559133	2010/0005232	8086788	Granted
11481	11481-US-PAT	11/051491	2005/0185472	7610433	Granted
11481	11481-US-PRV	60/542207			Converted
11482	11482-US-CNT	14/026857	2014/0013124	9552498	Granted
11482	11482-US-PAT	11/051560	2005/0232415	8571221	Granted
11482	11482-US-PRV	60/541972			Converted
11483	11483-US-CNT	12/325853	2009/0132827	8219825	Granted
11483	11483-US-CNT[2]	13/542815	2012/0278630	8601279	Granted
11483	11483-US-PAT	11/049987	2005/0193220	7461407	Granted
11483	11483-US-PRV	60/542173			Converted
11484	11484-US-PAT	10/767728	2005/0172282		Abandoned
11489	11489-US-CNT	12/323796	2009/0073883	7881195	Granted
11489	11489-US-CNT[2]	12/943338	2011/0058476	8520518	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11489	11489-US-PAT	10/788494	2005/0174939	7483373	Granted
11489	11489-US-PRV	60/543113			Converted
11491	11491-US-PAT	10/773486	2005/0198126		Abandoned
11497	11497-US-CNT	11/678088	2007/0136464	7788331	Granted
11497	11497-US-CNT[2]	12/870426	2010/0325230		Abandoned
11497	11497-US-PAT	10/767571	2005/0171996	7206816	Granted
11499	11499-US-PAT	10/781887		6888360	Granted
11507	11507-US-CNT	11/595745	2007/0061527	7320057	Granted
11507	11507-US-PAT	10/786977	2005/0188163	7155583	Granted
11511	11511-US-CNT	11/424052	2006/0281456	7444142	Granted
11511	11511-US-PAT	10/775030	2005/0177623	7079840	Granted
11513	11513-US-CNT	11/621475	2007/0111741	7570947	Granted
11513	11513-US-PAT	10/775036	2005/0176427	7184766	Granted
11515	11515-US-CNT	11/557205	2007/0066301	7653390	Granted
11515	11515-US-PAT	10/775029	2005/0176426	7151930	Granted
11519	11519-US-CNT	12/418831	2009/0193019	8224865	Granted
11519	11519-US-CNT[2]	13/480066	2012/0233211		Abandoned
11519	11519-US-PAT	10/782691	2005/0187971	7523112	Granted
11534	11534-US-CNT	11/558120	2007/0153002	7768513	Granted
11534	11534-US-CNT[2]	12/815475	2010/0245364		Abandoned
11534	11534-US-PAT	10/786029	2005/0190186	7161598	Granted
11536	11536-US-CNT	12/728624	2010/0173607	8081952	Granted
11536	11536-US-PAT	10/787859	2005/0191988	7720461	Granted
11538	11538-US-CNT	12/392215	2009/0268745	8130762	Granted
11538	11538-US-CNT[2]	13/399003	2012/0147820	8644320	Granted
11538	11538-US-PAT	10/786003	2005/0190776	7519063	Granted
11540	11540-US-CNT	11/687354	2007/0155405	7574200	Granted
11540	11540-US-CNT[2]	12/538851	2010/0005523	7869789	Granted
11540	11540-US-CNT[3]	14/260375	2014/0237548	9137668	Granted
11540	11540-US-CNT[4]	14/853486	2016/0007203	9326149	Granted
11540	11540-US-CNT[5]	15/137685	2017/0026841	10009771	Granted
11540	11540-US-CNT[6]	16/017074	2018/0310180	10327146	Granted
11540	11540-US-CNT[7]	16/402866	2019/0261183	10631167	Granted
11540	11540-US-CNT[8]	16/819351	2020/0221303		Publication of Application
11540	11540-US-DIV[2]	12/987583	2011/0105073		Abandoned
11540	11540-US-PAT	10/786030	2005/0193144	7400878	Granted
11546	11546-US-CNT	11/947957	2008/0074295	7773072	Granted
11546	11546-US-CNT[2]	12/830564	2010/0271309	8004494	Granted
11546	11546-US-CNT[3]	13/166666	2011/0248926	8421754	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11546	11546-US-PAT	10/785633	2005/0184963	7324091	Granted
11548	11548-US-CNT	11/963281	2008/0096612		Abandoned
11548	11548-US-PAT	10/790202	2005/0195153	7333084	Abandoned
11551	11551-US-CNT	12/141177	2008/0287110	7941127	Abandoned
11551	11551-US-CNT[2]	13/088552	2011/0256854	8396459	Abandoned
11551	11551-US-CNT[3]	13/764909	2013/0150067	8744469	Abandoned
11551	11551-US-PAT	10/784858	2005/0186942	7395051	Expired
11553	11553-US-PAT	10/785634	2005/0185090	7330216	Granted
11577	11577-US-CNT	12/372777	2009/0158144		Abandoned
11577	11577-US-PAT	10/787315	2005/0190970		Abandoned
11579	11579-US-DIV	12/060345	2008/0184223	8069442	Granted
11579	11579-US-PAT	10/785579	2005/0188369	7376947	Granted
11583	11583-US-CNT	12/815779	2010/0267377		Abandoned
11583	11583-US-CNT[2]	13/206073	2011/0300846		Abandoned
11583	11583-US-PAT	10/782963	2005/0186977		Abandoned
11585	11585-US-CNT	12/266952	2009/0089655	7598946	Granted
11585	11585-US-CNT[2]	12/549681	2010/0056225	7880725	Granted
11585	11585-US-CNT[3]	12/895189	2011/0018810	7969420	Granted
11585	11585-US-DIV	11/553255	2007/0046638	7456822	Granted
11585	11585-US-PAT	10/785134	2005/0188324	7145553	Granted
11589	11589-US-CNT	12/748872	2010/0185773	8073964	Granted
11589	11589-US-CNT[2]	13/282983	2012/0047272	8244904	Granted
11589	11589-US-CNT[3]	13/554401	2012/0284415		Abandoned
11589	11589-US-DIV	12/188570	2009/0210485	7720989	Granted
11589	11589-US-PAT	10/784984	2005/0188098	7426569	Granted
11591	11591-US-CNT	13/548355	2012/0284705	8869143	Granted
11591	11591-US-CNT[2]	14/491359	2015/0040120	9092293	Granted
11591	11591-US-PAT	10/786823	2005/0188371	8239858	Granted
11593	11593-US-CNT	13/611587	2013/0018647	8498858	Granted
11593	11593-US-PAT	10/785189	2005/0187774	8296126	Granted
11599	11599-US-CNT	12/576427	2010/0029220	8380237	Granted
11599	11599-US-PAT	10/941985	2006/0058052	7623882	Granted
11599-1	11599-1-US-CNT	12/829149	2010/0267411	8099121	Granted
11599-1	11599-1-US-PAT	11/458611	2007/0021136	7761109	Granted
11599-1	11599-1-US-PRV	60/700646			Converted
11601	11601-US-PAT	10/787300	2005/0190723	7933620	Granted
11603	11603-US-PAT	10/787302	2005/0197146	7840192	Granted
11605	11605-US-CNT	12/246760	2009/0029719	7974636	Granted
11605	11605-US-PAT	10/787296	2005/0192034	7450953	Granted
11607	11607-US-PAT	10/787297	2005/0192039	7856213	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11609	11609-US-CNT	12/556423	2010/0003988		Abandoned
11609	11609-US-PAT	10/789435	2005/0190782	7596119	Granted
11613	11613-US-CNT	12/903884	2011/0029989	8306989	Granted
11613	11613-US-CNT[2]	13/618458	2013/0013627	8788515	Granted
11613	11613-US-PAT	10/784979	2005/0187896	7873646	Granted
11615	11615-US-CNT	12/133612	2008/0292084	8498620	Granted
11615	11615-US-CNT[2]	12/642587	2010/0099385	7917127	Granted
11615	11615-US-PAT	10/786039	2005/0191969	7398061	Granted
11620	11620-US-CNT	13/074541	2011/0170407	8532142	Granted
11620	11620-US-PAT	10/787201	2005/0190792	7940796	Granted
11622	11622-US-PAT	10/787093	2005/0193345	8739071	Granted
11624	11624-US-CNT	12/025247	2008/0118001	7551689	Granted
11624	11624-US-CNT[2]	12/478812	2009/0245419	7787566	Granted
11624	11624-US-CNT[3]	12/847612	2010/0291887	8000409	Granted
11624	11624-US-CNT[4]	13/193589	2011/0319124	8290085	Granted
11624	11624-US-CNT[5]	13/604202	2012/0329411	8670503	Granted
11624	11624-US-PAT	10/781812	2005/0186923	7333563	Granted
11626	11626-US-CNT	12/186819	2008/0291162		Abandoned
11626	11626-US-PAT	10/788973	2005/0190146	7423628	Granted
11628	11628-US-CNT	12/972609	2011/0087996		Abandoned
11628	11628-US-PAT	10/788171	2005/0190971		Abandoned
11632	11632-US-CNT	11/741389	2007/0260655	7912455	Granted
11632	11632-US-PAT	10/787239	2005/0193066	7231199	Granted
11634	11634-US-CNT	11/672637	2007/0125630	7485816	Granted
11634	11634-US-CNT[2]	12/360944	2009/0134000	7777138	Granted
11634	11634-US-PAT	10/820386	2005/0227632	7252444	Granted
11636	11636-US-DIV	11/864958	2008/0019304	8301135	Abandoned
11636	11636-US-PAT	10/789405	2005/0190716	7525936	Granted
11638	11638-US-CNT	12/334456	2009/0098877	8532055	Granted
11638	11638-US-PAT	10/782718	2005/0185617	7466984	Granted
11646	11646-US-CNT	11/531127	2007/0001644	7388352	Granted
11646	11646-US-PAT	10/787314	2005/0189921	7116079	Granted
11648	11648-US-PAT	10/785999	2005/0190159	7432911	Granted
11650	11650-US-CNT	12/544263	2009/0319680	8291098	Granted
11650	11650-US-PAT	10/786004	2005/0193135	7596622	Granted
11652	11652-US-CNT	12/410885	2009/0187836		Abandoned
11652	11652-US-PAT	10/786018	2005/0193057	7552170	Granted
11658	11658-US-CNT	11/831015	2007/0270104	8639280	Granted
11658	11658-US-PAT	11/104385	2005/0255811	7280502	Granted
11658	11658-US-PRV	60/561664			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11658	11658-US-PRV[2]	60/620034			Converted
11659	11659-US-CNT	12/044478	2008/0153485	7650141	Granted
11659	11659-US-CNT[2]	12/628638	2010/0074186	7826826	Granted
11659	11659-US-CNT[3]	12/914868	2011/0044252	8036640	Granted
11659	11659-US-CNT[4]	13/228289	2011/0317618	8351902	Granted
11659	11659-US-CNT[5]	13/711319	2013/0170412	8923819	Granted
11659	11659-US-PAT	10/782528	2005/0185616	7362730	Granted
11661	11661-US-CNT	12/423427	2009/0210823	8291347	Granted
11661	11661-US-CNT[2]	13/619754	2013/0014063		Publication of Application
11661	11661-US-PAT	10/785340	2005/0188320	8255835	Granted
11667	11667-US-CIP	10/785790	2004/0165924	7083342	Abandoned
11667	11667-US-CNT	11/217530	2005/0286953	7819598	Abandoned
11667	11667-US-CNT[3]	12/884112	2011/0063787	8419303	Abandoned
11667	11667-US-CNT1	11/428063	2007/016091	7938589	Abandoned
11667	11667-US-CNT2	11/461425	2006/0263137	7663510	Abandoned
11667	11667-US-DEC	29/246548		D588119	Abandoned Decision
11667	11667-US-PRV	60/533487			Converted
11691	11691-US-CNT	12/331760	2009/0124253	7912483	Granted
11691	11691-US-CNT[2]	13/015271	2011/0117879	8078195	Granted
11691	11691-US-PAT	10/789571	2005/0197137	7477906	Granted
11693	11693-US-PAT	10/789298	2005/0190740	7668149	Granted
11695	11695-US-CNT	13/149177	2011/0230168		Abandoned
11695	11695-US-PAT	10/789556	2005/0190918	7974414	Granted
11697	11697-US-CNT	11/556319	2007/0060177	7548757	Granted
11697	11697-US-PAT	10/788533	2005/0197142	7151932	Granted
11709	11709-US-CNT	11/623542	2007/0130273	8731522	Granted
11709	11709-US-PAT	10/762820	2005/0164703	7184753	Granted
11711	11711-US-PAT	10/787097	2005/0190855	7308042	Granted
11713	11713-US-CNT	12/876496	2010/0333181	8326934	Granted
11713	11713-US-PAT	10/789404	2005/0193082	7797386	Granted
11715	11715-US-CNT	11/733521	2007/0182703	7606603	Granted
11715	11715-US-CNT[2]	12/555861	2010/0075718	8175654	Granted
11715	11715-US-CNT[3]	13/438128	2012/0190410	8660615	Granted
11715	11715-US-PAT	10/788599	2005/0192063	7221964	Granted
11721	11721-US-CNT	12/703969	2010/0142406		Abandoned
11721	11721-US-PAT	10/787929	2005/0198100	7698383	Granted
11727	11727-US-CNT	12/834575	2011/0010613		Abandoned
11727	11727-US-PAT	11/066239	2005/0192984	7756905	Granted
11727	11727-US-PRV	60/548098			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11728	11728-US-CNT	11/255873	2006/0039401	7929523	Granted
11728	11728-US-PAT	11/065030	2006/0023674	7894431	Granted
11728	11728-US-PAT[2]	11/065055			Abandoned
11728	11728-US-PRV	60/548096			Converted
11729	11729-US-CNT	11/416440	2006/0197628	7218187	Granted
11729	11729-US-PAT	10/797492	2005/0200428	7126439	Granted
11735	11735-US-CNT	13/614786	2013/0005369		Abandoned
11735	11735-US-CNT[2]	13/837589	2013/0205233		Abandoned
11735	11735-US-PAT	10/782964	2005/0188312		Abandoned
11745	11745-US-CNT	12/362540	2009/0199218	7900214	Granted
11745	11745-US-PAT	10/767722	2005/0172295	7509658	Granted
11749	11749-US-PAT	10/767340	2005/0172281	8387039	Granted
11758	11758-US-PAT	10/777478	2005/0181801	8073453	Granted
11764	11764-US-PAT	10/789946	2005/0193150		Abandoned
11766	11766-US-CNT	12/773244	2010/0216464	7912494	Granted
11766	11766-US-CNT[2]	13/028039	2011/0136489	8554266	Granted
11766	11766-US-PAT	10/840191	2005/0250529	7747275	Granted
11773	11773-US-PAT	10/790641	2005/0191994	8538386	Granted
11773-1	11773-1-US-CNT	12/632359	2010/0081465	7937125	Granted
11773-1	11773-1-US-CNT[2]	13/081753	2011/0184739	8086289	Granted
11773-1	11773-1-US-CNT[3]	13/304788	2012/0071213	8200295	Granted
11773-1	11773-1-US-CNT[4]	13/493538	2012/0252507	8554254	Granted
11773-1	11773-1-US-CNT[5]	14/047482	2014/0038574	8731531	Granted
11773-1	11773-1-US-CNT[6]	14/255345	2014/0228076	9237219	Granted
11773-1	11773-1-US-CNT[7]	14/960867	2016/0094706	9596339	Granted
11773-1	11773-1-US-CNT[8]	15/457927	2017/0193983	10115388	Granted
11773-1	11773-1-US-CNT[9]	16/171764	2020/0135170	11011153	Granted
11773-1	11773-1-US-PAT	10/790479	2005/0192061	7650170	Granted
11775	11775-US-CNT	11/355115	2006/0172726	7894594	Granted
11775	11775-US-PAT	10/785657	2005/0188027	7043240	Granted
11777	11777-US-PRV	60/547155			Converted
11779	11779-US-CNT	12/877358	2010/0332556	9692638	Granted
11779	11779-US-PAT	10/789452	2005/0193111	7818416	Granted
11781	11781-US-PAT	10/787515	2005/0192964		Abandoned
11782	11782-US-CNT	13/616702	2013/0007176	8521907	Granted
11782	11782-US-PAT	10/786450	2005/0198155	8271681	Granted
11783	11783-US-CNT	13/103260	2011/0212710	8116742	Granted
11783	11783-US-CNT[2]	13/346759			Abandoned
11783	11783-US-PAT	10/780258	2005/0181768	8005462	Granted
11785	11785-US-CNT	11/554318	2007/0054657	7747288	Granted

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11785	11785-US-CNT[2]	12/778284	2010/0222029	8185148	Granted
11785	11785-US-CNT[3]	13/453093	2012/0202467	8718702	Granted
11785	11785-US-PAT	10/780423	2005/0181836	7162223	Granted
11787	11787-US-CNT	11/763214	2007/0236169	7489102	Granted
11787	11787-US-CNT[2]	12/356944	2009/0128091	7884570	Granted
11787	11787-US-CNT[3]	12/978902	2011/0089889	8120313	Granted
11787	11787-US-CNT[4]	13/357137	2012/0119693	8610397	Granted
11787	11787-US-PAT	10/776426	2005/0174094	7271568	Granted
11794	11794-US-CNT	13/047176	2011/0165867	8161105	Granted
11794	11794-US-CNT[2]	13/409632	2012/0164998	8583729	Granted
11794	11794-US-PAT	11/072666	2006/0010200	7996463	Granted
11794	11794-US-PRV	60/572866			Converted
11796	11796-US-PAT	11/085881	2006/0007905	7502962	Granted
11796	11796-US-PRV	60/555608			Converted
11805	11805-US-CNT	11/510376	2006/0286976	7251486	Granted
11805	11805-US-CNT2	11/828594	2007/0265007	7966015	Granted
11805	11805-US-PAT	10/831263	2005/0239462	7120438	Granted
11809-1	11809-1-US-PAT	11/185898	2007/0021132	7831269	Granted
11811	11811-US-CNT	11/733111	2007/0176799	7492286	Granted
11811	11811-US-CNT[3]	12/641039	2010/0093406	8111175	Granted
11811	11811-US-CNT[4]	13/343334	2012/0105327	8896469	Granted
11811	11811-US-CNT2	12/204632	2008/0318637	7656316	Granted
11811	11811-US-PAT	10/835118	2005/0242972	7224292	Granted
11821	11821-US-CNT	13/176434	2011/0263253	8249614	Granted
11821	11821-US-CNT[2]	13/550824	2012/0282944		Abandoned
11821	11821-US-PAT	10/787550	2005/0192020	8010123	Granted
11821-1	11821-1-US-CNT	13/209676	2011/0306342	8160584	Granted
11821-1	11821-1-US-CNT[2]	13/431544	2012/0184272	8320911	Granted
11821-1	11821-1-US-PAT	10/787543	2005/0191987	8023943	Granted
11824	11824-US-CNT	13/619173	2013/0016834	8638944	Granted
11824	11824-US-DIV	12/948915	2011/0064225	8325928	Granted
11824	11824-US-PAT	10/825291	2005/0232430	7899190	Granted
11824-1	11824-1-US-PAT	11/128206	2006/0256963	7778419	Granted
11825	11825-US-CNT	12/357550	2009/0128368	8253691	Granted
11825	11825-US-PAT	10/825500	2005/0235021	7489301	Granted
11827	11827-US-PAT	10/786000	2005/0190083	7113111	Granted
11829	11829-US-PAT	10/833170	2005/0246626	7984372	Granted
11834	11834-US-PAT	10/825972	2005/0233776		Abandoned
11836	11836-US-PAT	10/825449	2005/0235046	7720788	Granted
11838	11838-US-CNT	13/087969	2011/0191845	8289916	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11838	11838-US-CNT[2]	13/618612	2013/0014250	8503974	Granted
11838	11838-US-PAT	10/835260	2005/0245229	7948938	Granted
11840	11840-US-PAT	10/835276	2005/0245231	8520851	Granted
11842	11842-US-CNT	12/686001	2010/0146067	8065396	Granted
11842	11842-US-CNT[2]	13/272308	2012/0036230	8307051	Granted
11842	11842-US-PAT	10/819956	2005/0228873	7673018	Granted
11844	11844-US-CNT	12/404750	2009/0177880	7840799	Granted
11844	11844-US-CNT[2]	12/951743	2011/0066845	8677113	Granted
11844	11844-US-PAT	10/836807	2005/0246538	7506154	Granted
11846	11846-US-CNT	12/685475	2010/0106970	8156336	Granted
11846	11846-US-CNT[2]	13/429654	2012/0297194	8543822	Granted
11846	11846-US-PAT	10/836107	2005/0243619	7647498	Granted
11848	11848-US-PAT	10/861372	2006/0033718	7382359	Granted
11900	11900-US-PAT	11/058259	2005/0254658	7929702	Granted
11900	11900-US-PRV	60/567611			Converted
11913	11913-US-CNT	12/885281	2011/0010705	8887988	Granted
11913	11913-US-CNT[2]	13/618311	2013/0019318	9033216	Granted
11913	11913-US-CNT[3]	14/715227	2015/0254472	9542571	Granted
11913	11913-US-CNT[4]	15/402007	2017/0124344	10474841	Granted
11913	11913-US-PAT	11/118844	2005/0257209	7815100	Granted
11913	11913-US-PRV	60/567163			Converted
11913-1	11913-1-US-CNT	12/468441	2009/0224036		Abandoned
11913-1	11913-1-US-PAT	11/118748	2005/0252963	7546956	Abandoned
11914	11914-US-PAT	11/065835	2005/0255829		Abandoned
11914	11914-US-PRV	60/566791			Converted
11916	11916-US-CNT	12/842133	2010/0284536	8442234	Granted
11916	11916-US-CNT[2]	13/866054	2013/0232334	9037845	Granted
11916	11916-US-PAT	10/992868	2005/0244009	7787626	Granted
11916	11916-US-PRV	60/567162			Converted
11917	11917-US-PAT	11/118792	2005/0250478	8667603	Granted
11917	11917-US-PRV	60/567134			Converted
11920	11920-US-CNT	12/576737	2010/0031371	8447696	Granted
11920	11920-US-CNT[2]	13/895073	2013/0254437	9507950	Granted
11920	11920-US-CNT[3]	15/336437	2017/0048712	10484870	Granted
11920	11920-US-CNT[4]	16/670338	2020/0084626	11102652	Granted
11920	11920-US-PAT	11/067239	2005/0246243	7664707	Granted
11920	11920-US-PRV	60/566774			Converted
11921	11921-US-CNT	11/504410	2006/0273161		Abandoned
11921	11921-US-PAT	11/065880	2005/0242175	7104445	Granted
11921	11921-US-PRV	60/567158			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
11922	11922-US-CNT	12/619948	2010/0095352	7992216	Granted
11922	11922-US-CNT[2]	13/186514	2011/0276800		Abandoned
11922	11922-US-PAT	11/066406	2005/0246535	7627757	Granted
11922	11922-US-PRV	60/566772			Converted
11923	11923-US-CNT	12/721878	2010/0169979	7986939	Granted
11923	11923-US-PAT	11/065984	2006/0021059	7707639	Granted
11923	11923-US-PRV	60/567164			Converted
11924	11924-US-CNT	13/481892	2012/0233459	8700920	Granted
11924	11924-US-PAT	11/118133	2005/0257043	8190913	Granted
11924	11924-US-PRV	60/567080			Converted
11925	11925-US-PAT	11/065958	2005/0246540	8832445	Granted
11925	11925-US-PRV	60/566773			Converted
11926	11926-US-PAT	11/176116	2006/0021038	8607334	Granted
11926	11926-US-PRV	60/586423			Converted
11927	11927-US-CIP	11/118236	2005/0251680	7646872	Granted
11927	11927-US-CNT	12/651630	2010/0104102	7894605	Granted
11927	11927-US-CNT[2]	13/006044	2011/0126013	8218773	Granted
11927	11927-US-CNT[3]	13/530593	2012/0257746	8693695	Granted
11927	11927-US-PRV	60/566790			Converted
11929	11929-US-CNT	12/118285	2011/0058568	8665853	Granted
11929	11929-US-CNT[2]	13/094939	2011/0199977	8325700	Granted
11929	11929-US-CNT[3]	13/616203	2013/0007770	8520653	Granted
11929	11929-US-PAT	10/887877	2006/0007903	7372841	Granted
11930	11930-US-CNT	13/355228	2012/0191978	8761396	Granted
11930	11930-US-PAT	10/984331	2005/0244007	8130957	Granted
11930	11930-US-PRV	60/566771			Converted
11933	11933-US-PAT	10/857900	2005/0273695	7299406	Granted
11937	11937-US-DIV	11/861088	2008/0009254	7778616	Granted
11937	11937-US-PAT	10/883246	2006/0003704	7274920	Granted
11939	11939-US-CNT	12/370857	2009/0154050	7869180	Granted
11939	11939-US-PAT	10/881259	2006/0002047	7508644	Granted
11939-1	11939-1-US-CNT	11/636050	2007/0081283	7369388	Granted
11939-1	11939-1-US-PAT	10/881280	2006/0002048	7161784	Granted
11943	11943-US-PAT	10/894540	2006/0019707	8400433	Granted
11945	11945-US-CNT	12/134497	2008/0268792	8150375	Granted
11945	11945-US-PAT	10/883266	2006/0003740	7398079	Granted
11947	11947-US-CNT	11/866715	2008/0020718	7697950	Granted
11947	11947-US-CNT[2]	12/758152	2010/0197335	8023983	Granted
11947	11947-US-PAT	10/880716	2006/0003781	7295853	Granted
11949	11949-US-CNT	12/824940	2010/0265908	8942087	Granted

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11949	11949-US-PAT	10/883313	2006/0002397	7746774	Granted
11953	11953-US-CNT	12/389963	2009/0158191		Abandoned
11953	11953-US-PAT	10/866691	2005/0275633	7515135	Granted
11955	11955-US-CNT	12/553139	2010/0227555	8032190	Granted
11955	11955-US-CNT[2]	13/231384	2012/0003936	8238982	Granted
11955	11955-US-CNT[3]	13/563945	2012/0309317	8787991	Granted
11955	11955-US-CNT[4]	14/334900	2014/0370813	9131336	Granted
11955	11955-US-PAT	10/841441	2005/0250444	7603145	Reissued (Inactive Parent)
11955	11955-US-REI	12/914438		RE43027	Granted
11957	11957-US-PAT	10/858070	2006/0007098	7714832	Granted
11959	11959-US-PAT	10/855587	2005-0275508	7019622	Granted
11961	11961-US-CNT	12/100222	2008/0193836	7912515	Granted
11961	11961-US-CNT[2]	13/052775	2011/0171499	8213998	Granted
11961	11961-US-CNT[3]	13/489050	2012/0244389	8700104	Granted
11961	11961-US-DIV	11/461289	2006/0279254	7389128	Granted
11961	11961-US-PAT	10/858080	2005/0272479	7092746	Granted
11963	11963-US-CNT	12/911013	2011/0033043	8184806	Granted
11963	11963-US-CNT[2]	13/475706			Abandoned
11963	11963-US-PAT	10/851123	2005/0259814	7848514	Granted
11965	11965-US-CNT	11/853230	2007/0297383	7929967	Granted
11965	11965-US-CNT[2]	13/089166	2011/0194547	9072037	Granted
11965	11965-US-CNT[3]	14/736948	2015/0282062	9781665	Granted
11965	11965-US-CNT[4]	15/723441	2018/0027489	9986500	Granted
11965	11965-US-CNT[5]	15/989466	2018/0279217	10588076	Granted
11965	11965-US-PAT	10/840190	2005-0249171	7283507	Granted
11969	11969-US-CNT	11/585336	2007/0091060	8063869	Granted
11969	11969-US-PAT	10/858060	2005/0270252	7144136	Granted
11975	11975-US-PAT	10/857965	2005/0270169	7265655	Granted
11977	11977-US-PAT	10/857974	2005/0270729	7027295	Granted
11979	11979-US-CNT	11/526878	2007/0070589	7551430	Granted
11979	11979-US-CNT[3]	13/554624	2012/0287568	8902576	Granted
11979	11979-US-CNT2	12/258436	2009/0268387	8289689	Granted
11979	11979-US-PAT	10/857968	2005/0270728	7130185	Granted
11981	11981-US-CNT	12/016364	2008/0125194	8036723	Granted
11981	11981-US-PAT	10/855401	2005/0266872	7349723	Granted
11983	11983-US-CNT	12/500934	2009/0276067	8300848	Abandoned
11983	11983-US-CNT[2]	13/608135	2013/0003991		Abandoned
11983	11983-US-PAT	10/855407	2005/0276425	7574010	Abandoned
11985	11985-US-CNT	12/036607	2008/0146294	8081786	Granted

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11985	11985-US-CNT[2]	12/834210	2010/0278369	8369547	Granted
11985	11985-US-CNT[3]	13/729663	2013/0114845	8798306	Granted
11985	11985-US-PAT	10/856806	2005/0265567	7366314	Granted
11987	11987-US-CNT	12/109925	2008/0199038	7991148	Abandoned
11987	11987-US-CNT[2]	13/170748	2011/0261951	8553874	Abandoned
11987	11987-US-PAT	10/856808	2005/0265574	7409058	Abandoned
11989	11989-US-PAT	10/857436	2005/0278545	7627120	Granted
11991	11991-US-CNT	12/556721	2009/0327677	8176312	Granted
11991	11991-US-CNT[2]	13/465535	2012/0221841	8751784	Granted
11991	11991-US-DIV	11/624384	2007/0118729	7607004	Granted
11991	11991-US-PAT	10/912553	2005/0268084	7251727	Granted
11991	11991-US-PRV	60/567796			Converted
11992	11992-US-PAT	10/902104	2006/0026527		Abandoned
11994	11994-US-PAT	11/117410	2006/0026198		Abandoned
11994	11994-US-PRV	60/592132			Converted
11995	11995-US-CNT	12/556327	2010/0058190	8234356	Granted
11995	11995-US-PAT	11/188761	2007/0016682	7603447	Granted
11995	11995-US-PRV	60/592130			Converted
11996	11996-US-PAT	11/102671	2006/0026281	8180861	Granted
11996	11996-US-PRV	60/592131			Converted
11998	11998-US-CNT	12/575229	2010/0077062	8051149	Granted
11998	11998-US-PAT	11/188756	2006/0026335	7620705	Granted
11998	11998-US-PRV	60/592129			Converted
12002	12002-US-CNT	12/201992	2008/0316179	8259074	Granted
12002	12002-US-CNT[2]	13/463635	2012/0212419		Abandoned
12002	12002-US-PAT	10/902975	2006/0022947	7439959	Granted
12004	12004-US-CIP	11/831079	2008/0007433	9075449	Granted
12004	12004-US-CNT	11/857939	2008/0010611		Abandoned
12004	12004-US-PAT	10/859053	2006/0007120	7289044	Granted
12004-1	12004-1-US-CNT	11/849095	2007/0290893	7893850	Granted
12004-1	12004-1-US-CNT[2]	13/006655	2011/0112828		Abandoned
12004-1	12004-1-US-PAT	10/859445	2005/0273332	7283065	Granted
12008	12008-US-CIP	11/831065	2008/0010050	8060138	Granted
12008	12008-US-CNT	12/116637	2008/0215312	7962169	Granted
12008	12008-US-CNT[2]	13/101507	2011/0230230	8224393	Granted
12008	12008-US-CNT[3]	13/252839	2012/0022858	8320959	Granted
12008	12008-US-CNT[4]	13/523572	2012/0323561	8473010	Granted
12008	12008-US-CNT[5]	13/898694	2013/0253915	8731900	Granted
12008	12008-US-CNT[6]	14/248231	2014/0235296	9621691	Granted
12008	12008-US-PAT	10/859444	20050283540	7389124	Granted

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12010	12010-US-CNT	11/959116	2008/0094365	8068092	Granted
12010	12010-US-CNT[2]	13/279730	2012/0041757	8519953	Granted
12010	12010-US-CNT[3]	13/949934	2013/0311171	8854301	Granted
12010	12010-US-PAT	10/858828	2006/0007117	7333085	Granted
12012	12012-US-CIP	11/831101	2008/0010051	7765345	Granted
12012	12012-US-CNT	11/845617	2007/0290892	7994943	Granted
12012	12012-US-CNT[3]	13/111509	2011/0216010	8878703	Granted
12012	12012-US-CNT[4]	13/173424	2011/0267275	8854232	Granted
12012	12012-US-CNT[5]	14/506415	2015/0022456	9946360	Granted
12012	12012-US-CNT2	11/931543	2008/0048987	7969329	Granted
12012	12012-US-DIV	10/991800	2006/0007128	7358866	Granted
12012	12012-US-PAT	10/859067	2006/0007121	7312726	Granted
12012-1	12012-1-US-CNT	11/948645	2008/0074388	7969415	Granted
12012-1	12012-1-US-CNT[2]	13/111620	2011/0279290	8289276	Granted
12012-1	12012-1-US-CNT[3]	13/616051	2013/0013292	8542187	Granted
12012-1	12012-1-US-PAT	10/858863	2006/0007118	7324083	Granted
12012-2	12012-2-US-CIP	11/831139	2008/0010052	8542132	Granted
12012-2	12012-2-US-CNT	13/445452	2012/0194437	8810520	Granted
12012-2	12012-2-US-DIV	11/424990	2006/0267950	8179289	Granted
12012-2	12012-2-US-PAT	10/858829	2005/0270183	7091885	Granted
12012-3	12012-3-US-PAT	10/859052	2006/0007119	7352296	Granted
12020	12020-US-CNT	12/360431	2009/0137291		Abandoned
12020	12020-US-PAT	11/143184	2005/0272484	7489953	Granted
12020	12020-US-PRV	60/576353			Converted
12022	12022-US-CNT	12/620063	2010/0064003	7945617	Granted
12022	12022-US-CNT[2]	13/080949	2011/0185005	8260851	Granted
12022	12022-US-CNT[3]	13/565861	2013/0198256	8745131	Granted
12022	12022-US-PAT	10/931268	2006/0047745	7650377	Granted
12022	12022-US-PAT1	10/930739	2006/0047744	9143577	Granted
12022	12022-US-PRV	60/575458			Converted
12022-1	12022-1-US-PAT	10/930725	2006/0046696		Abandoned
12022-1	12022-1-US-PRV	60/575456			Converted
12024	12024-US-CNT	12/578097	2010/0026631		Abandoned
12024	12024-US-PAT	11/008939	2006/0007129		Abandoned
12024	12024-US-PRV	60/576583			Converted
12025	12025-US-PAT	10/913879	2006/0029003	7609659	Granted
12027	12027-US-CNT	12/815883	2011/0066969	8040322	Granted
12027	12027-US-PAT	11/155946	2006/0001678	7764277	Granted
12027	12027-US-PRV	60/581287			Converted
12028	12028-US-CNT	13/228257	2012/0009910		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
12028	12028-US-PAT	10/864292	2005/0276417	8036385	Granted
12030	12030-US-CNT	13/432030	2012/0184336		Abandoned
12030	12030-US-PAT	10/913345	2006/0030369	8965457	Granted
12036	12036-US-CNT	12/358074	2009/0128369		Abandoned
12036	12036-US-PAT	10/896424	2006/0018463	7502462	Granted
12036-1	12036-1-US-PAT	10/896554	2006/0017697	8031178	Granted
12040	12040-US-CNT	14/521771	2015/0045081	9143902	Granted
12040	12040-US-PAT	10/884937	2006/0009249	8909277	Granted
12042	12042-US-CNT	11/561172	2007/0121909	8831209	Granted
12042	12042-US-PAT	10/837677	2005/0249346	7162025	Granted
12044	12044-US-CNT	13/616674	2013/0012171	8463243	Granted
12044	12044-US-CNT[2]	13/891465	2013/0288646	8781443	Granted
12044	12044-US-PAT	11/158104	2005/0282525	8331911	Granted
12044	12044-US-PRV	60/581644			Converted
12045	12045-US-CNT	14/018962	2014/0006969	9552137	Granted
12045	12045-US-PAT	10/892127	2006/0031329	8554844	Granted
12047	12047-US-CNT	12/407834	2009/0187796	7802139	Granted
12047	12047-US-CNT[2]	12/886065	2011/0010554	7930591	Granted
12047	12047-US-CNT[3]	13/075629	2011/0191642	8429456	Granted
12047	12047-US-CNT[4]	13/856155	2013/0227360	9110799	Granted
12047	12047-US-PAT	10/895991	2006/0020859	7565577	Granted
12049	12049-US-CNT	11/564900	2007/0105533	7813719	Granted
12049	12049-US-CNT[2]	12/876578	2010/0330967	8073495	Granted
12049	12049-US-CNT[3]	12/986257	2011/0102172	8452266	Granted
12049	12049-US-PAT	10/889893	2006/0019638	7890085	Granted
12051	12051-US-CNT	14/809854	2015/0334120	9398023	Granted
12051	12051-US-PAT	10/914634	2006/0036865	9094429	Granted
12053	12053-US-PAT	10/892202	2006/0014498	7792542	Granted
12055	12055-US-CNT	13/034152	2011/0167378	10261599	Granted
12055	12055-US-PAT	10/887279	2006/0010398	7921374	Granted
12059	12059-US-CNT	13/534691	2012/0271896	8788605	Granted
12059	12059-US-PAT	11/157506	2006/0019639	8234339	Granted
12059	12059-US-PRV	60/581650			Converted
12060	12060-US-CNT	12/437053	2009/0227288	7831277	Granted
12060	12060-US-CNT[2]	12/938456	2011/0044484	8254990	Granted
12060	12060-US-CNT[3]	13/562527	2012/0289218	8750929	Granted
12060	12060-US-PAT	10/902155	2006/0025172	7551942	Granted
12063	12063-US-CNT	12/693177	2010/0119065	8144866	Granted
12063	12063-US-CNT[2]	13/613498	2013/0028414	8660269	Granted
12063	12063-US-DIV	12/693191	2010/0119066	8280047	Granted

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12063	12063-US-PAT	11/098497	2006/0005049	7653202	Granted
12063	12063-US-PRV	60/579458			Converted
12064	12064-US-CNT	11/741992	2007/0288811	7500160	Granted
12064	12064-US-CNT[2]	12/356368	2009/0132874	7634699	Granted
12064	12064-US-PAT	11/098496	2005/0278591	7228471	Granted
12064	12064-US-PRV	60/579459			Converted
12065	12065-US-CIP	11/302154	2006/0123056	7784088	Granted
12065	12065-US-CNT	12/843924	2010/0293606	8250371	Granted
12065	12065-US-CNT[2]	13/175925	2012/0174238	8713706	Granted
12065	12065-US-CNT[3]	13/590984	2012/0317618	8489890	Granted
12065	12065-US-PAT	10/984822	2006/0026689	7996908	Granted
12065	12065-US-PRV	60/592141			Converted
12067	12067-US-PAT	11/181102	2006/0034213	8374121	Granted
12067	12067-US-PRV	60/601418			Converted
12074	12074-US-CNT	12/772853	2010/0218119	8713452	Granted
12074	12074-US-CNT[2]	14/199717	2014/0189522	10469414	Granted
12074	12074-US-CNT[3]	16/599375	2020/0042943	10984382	Granted
12074	12074-US-PAT	10/982293	2005/0261011	8856663	Granted
12074	12074-US-PRV	60/567563			Converted
12075	12075-US-DES	29/211449		D539295	Expired
12075	12075-US-PAT	10/919528	2006/0033704		Abandoned
12081	12081-US-PAT	10/920155	2006/0035642	7596379	Granted
12083	12083-US-CNT	12/176823	2009/0061826	8005496	Granted
12083	12083-US-CNT[2]	13/183515	2011/0269431	8538392	Granted
12083	12083-US-PAT	11/068076	2005/0243771	7418265	Granted
12083	12083-US-PRV	60/567598			Converted
12084	12084-US-CNT	11/684822	2007/0152890	7427959	Granted
12084	12084-US-CNT2	12/198522	2008/0318644		Abandoned
12084	12084-US-PAT	11/046716	2006/0001578	7190312	Granted
12084	12084-US-PRV	60/585126			Converted
12085	12085-US-CNT	12/340426	2009/0100156	8266255	Granted
12085	12085-US-CNT[2]	13/608550	2012/0331116		Abandoned
12085	12085-US-PAT	10/921885	2006/0041645	7483963	Granted
12089	12089-US-PAT	10/889075	2006/0014405	7918671	Granted
12093	12093-US-PAT	10/996406	2005/0256878	7805755	Granted
12093	12093-US-PRV	60/567749			Converted
12100	12100-US-CNT	12/015844	2008/0123609	7912435	Granted
12100	12100-US-CNT[2]	13/038480	2011/0149935	8503959	Granted
12100	12100-US-CNT[3]	13/933214	2013/0293440	8918072	Granted
12100	12100-US-PAT	10/924276	2006/0040622	7353013	Granted

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12102	12102-US-CNT	12/021883	2008/0125121	7894813	Granted
12102	12102-US-PAT	10/928006	2006/0046723	7333811	Granted
12104	12104-US-CNT	11/080444	2005/0283725	8112708	Granted
12104	12104-US-CNT[2]	13/341029	2012/0101811	10140283	Granted
12104	12104-US-PAT	10/870035	2005/0283724		Abandoned
12106	12106-US-CNT	13/531865	2012/0265753	8495059	Granted
12106	12106-US-PAT	10/931054	2006/0047644	8239375	Granted
12108	12108-US-CIP	11/831174	2008/0007530	8004495	Granted
12108	12108-US-CNT	12/890989	2011/0012837	8502783	Granted
12108	12108-US-CNT[2]	13/931853	2013/0314326	9189080	Granted
12108	12108-US-PAT	10/930726	2006/0045598	7817140	Granted
12110	12110-US-CIP	11/831238	2008/0010053		Abandoned
12110	12110-US-CNT	12/709163	2010/0145679	9015028	Granted
12110	12110-US-PAT	10/931281	2006/0058995	7698123	Granted
12112	12112-US-CIP	11/831309	2008/0015840	7952496	Granted
12112	12112-US-CNT	12/620888	2010/0073299	8237663	Granted
12112	12112-US-CNT[2]	13/093227	2011/0193735	9256297	Granted
12112	12112-US-CNT[3]	13/540494	2013/0002563	8780050	Granted
12112	12112-US-CNT[4]	15/017891			Abandoned
12112	12112-US-PAT	10/931276	2006/0044278	7646375	Granted
12115	12115-US-CNT	13/013136	2011/0154047	8255695	Granted
12115	12115-US-DIV	12/541378	2009/0307498	7900053	Granted
12115	12115-US-PAT	10/927501	2006/0048215	7594120	Granted
12117	12117-US-CNT[2]	13/613056	2013/0006615	8610602	Granted
12117	12117-US-PAT	10/946413	2006/0063558		Abandoned
12117	12117-US-PAT2	11/849003	2009/0058690	8289193	Granted
12119	12119-US-CNT	12/641375	2010/0167649	7917174	Granted
12119	12119-US-CNT[2]	13/050564	2011/0177784	8326360	Granted
12119	12119-US-CNT[3]	13/685140	2013/0084806	8750930	Granted
12119	12119-US-CNT[4]	14/274217	2014/0248838	8948815	Granted
12119	12119-US-PAT	10/929491	2006/0046651	7660605	Granted
12121	12121-US-CNT	12/748930	2010/0177705	8787334	Granted
12121	12121-US-PAT	10/929405	2006/0045080	7710931	Granted
12123	12123-US-CNT	12/128710	2008/0227506	7899427	Granted
12123	12123-US-CNT[2]	13/009314	2011/0111810	8190112	Granted
12123	12123-US-CNT[3]	13/460136	2012/0214555	8346199	Granted
12123	12123-US-CNT[4]	13/692393	2013/0095896	8498588	Granted
12123	12123-US-CNT[5]	13/903723	2013/0260841	8831539	Granted
12123	12123-US-PAT	11/064702	2006/0046798	7398072	Granted
12123	12123-US-PRV	60/605751			Converted

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12124	12124-US-CNT	13/935775	2013/0297794	9503307	Granted
12124	12124-US-PAT	10/931211	2006/0047606	8510225	Granted
12126	12126-US-CNT	12/632217	2010/0082976	8099593	Granted
12126	12126-US-CNT[2]	13/324364	2012/0084556	8589677	Granted
12126	12126-US-PAT	10/931108	2006/0047949	7631183	Granted
12128	12128-US-CNT	13/615098	2013/0007447	8561158	Granted
12128	12128-US-DIV	12/405551	2009/0199007	8296829	Granted
12128	12128-US-PAT	10/931109	2006/0047962	7549043	Granted
12130	12130-US-CNT	11/949289	2008/0076482	8064963	Granted
12130	12130-US-CNT[2]	13/300776	2012/0071209	8244306	Granted
12130	12130-US-CNT[3]	13/551017	2012/0280955	8600451	Granted
12130	12130-US-CNT[4]	14/062297	2014/0051481	9806826	Granted
12130	12130-US-PAT	11/065243	2006/0046787	7328047	Granted
12130	12130-US-PRV	60/605786			Converted
12131	12131-US-CNT	12/370823	2009/0210718	8385887	Granted
12131	12131-US-CNT[2]	13/612596	2013/0007448	8831569	Granted
12131	12131-US-CNT[3]	14/454249	2014/0351599	10476677	Granted
12131	12131-US-PAT	10/934765	2006/0053291	7509120	Granted
12132	12132-US-PAT	11/535547	2008/0075517	7658561	Granted
12133	12133-US-CNT	12/645003	2010/0100730	8209530	Granted
12133	12133-US-CNT[2]	13/483216	2012/0239927	8566582	Granted
12133	12133-US-PAT	10/931983	2006/0059332	7640428	Granted
12136	12136-US-CNT	13/300106	2012/0064876	9160839	Granted
12136	12136-US-CNT[2]	13/432007	2012/0184260		Abandoned
12136	12136-US-CNT[3]	14/875961	2016/0028879	10491744	Granted
12136	12136-US-PAT	10/939622	2006/0058063	8086274	Granted
12140	12140-US-PAT	10/933264	2006/0061859	7697275	Granted
12142	12142-US-CNT	12/475967	2009/0240958		Abandoned
12142	12142-US-PAT	10/933234	2006/0053306	7543160	Granted
12145	12145-US-CNT	12/404749	2009/0217044	8023656	Granted
12145	12145-US-CNT[2]	13/211635	2011/0299687		Abandoned
12145	12145-US-DIV	12/350452	2009/0119511	8135951	Granted
12145	12145-US-PAT	10/913499	2006/0036859	7506164	Granted
12147	12147-US-CNT	12/754363	2010/0211888	8595630	Granted
12147	12147-US-PAT	10/909842	2006/0030295	7694232	Granted
12149	12149-US-CNT	13/280732	2012/0042161		Abandoned
12149	12149-US-PAT	11/039789	2005/0262552	8074066	Granted
12149	12149-US-PRV	60/568451			Converted
12150	12150-US-CNT	12/268129	2009/0069005	7969941	Granted
12150	12150-US-CNT[2]	13/117780	2011/0228703	8340042	Granted

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12150	12150-US-PAT	10/939836	2006/0056447	7463602	Granted
12154	12154-US-CNT	12/194768	2008/0306922	8301878	Granted
12154	12154-US-CNT[2]	13/613069	2013/0013917	8904170	Granted
12154	12154-US-PAT	10/913693	2006/0036848	7430663	Granted
12156	12156-US-CNT	12/500840	2009/0282247		Abandoned
12156	12156-US-PAT	10/919320	2006/0041746	7562218	Granted
12160	12160-US-CNT	11/686446	2007/0155419	7387256	Granted
12160	12160-US-PAT	11/065587	2006/0058058	7243851	Granted
12160	12160-US-PRV	60/605825			Converted
12161	12161-US-PAT	11/064701	2006/0046770	7363063	Granted
12161	12161-US-PRV	60/605719			Converted
12162	12162-US-CNT	12/210306	2009/0011804	7941193	Granted
12162	12162-US-CNT[2]	13/079091	2011/0237311	8489161	Granted
12162	12162-US-CNT[3]	13/927595	2013/0288745	8798691	Granted
12162	12162-US-PAT	11/064922	2006/0068856	7444174	Granted
12162	12162-US-PRV	60/605756			Converted
12163	12163-US-CNT	13/280504	2012/0094640	8688081	Granted
12163	12163-US-DIV	12/354184	2009/0131034		Abandoned
12163	12163-US-PAT	11/048716	2006/0052061	8064355	Granted
12163	12163-US-PRV	60/607758			Converted
12164	12164-US-CNT	12/512108	2009/0286530	7912462	Granted
12164	12164-US-PAT	10/934426	2006/0063525	7587202	Granted
12166	12166-US-PAT	10/912243	2006/0030315		Abandoned
12171	12171-US-CNT	13/211841	2011/0299473	8422431	Granted
12171	12171-US-PAT	10/917827	2006/0035634	8023451	Granted
12173	12173-US-CNT	12/718626	2010/0156962	8421827	Granted
12173	12173-US-PAT	10/957606	2006/0071900	7714829	Granted
12175	12175-US-PAT	10/937001	2006/0052119	8868045	Granted
12176	12176-US-CNT	12/428170	2009/0240943	8074072	Granted
12176	12176-US-CNT[2]	13/281789	2012/0045057	8515068	Granted
12176	12176-US-PAT	10/996369	2005/0250473	7603556	Granted
12176	12176-US-PRV	60/568119			Converted
12177	12177-US-PAT	10/839194	2005/0250546		Abandoned
12181	12181-US-PAT	10/947137	2006/0064647		Abandoned
12196	12196-US-CNT	13/922692	2013/0290864		Abandoned
12196	12196-US-PAT	10/940672	2006/0059430	8473848	Granted
12198	12198-US-CNT	12/133750	2008/0297469	8134306	Granted
12198	12198-US-PAT	10/940977	2006/0055658	7391164	Granted
12200	12200-US-CNT	12/979296	2011/0092203	8554206	Granted
12200	12200-US-PAT	10/941487	2006/0075090	7962136	Granted

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12203	12203-US-CNT	12/954068	2011/0069831	8565419	Granted
12203	12203-US-PAT	11/229010	2006/0103553	7864949	Granted
12203	12203-US-PRV	60/610334			Converted
12204	12204-US-PAT	10/957658	2006/0073855	7161496	Granted
12206	12206-US-PAT	10/940665	2006/0056364	7701898	Granted
12208	12208-US-CNT	12/274448	2009/0077644	7921209	Granted
12208	12208-US-CNT[2]	13/046861	2011/0167484	8533329	Granted
12208	12208-US-PAT	10/945950	2006/0064493	7469291	Granted
12210	12210-US-CNT	12/606506	2010/0114906	8045510	Granted
12210	12210-US-PAT	10/931290	2006/0056334	7636891	Granted
12212	12212-US-CNT	11/427577	2006/0247883	7203616	Granted
12212	12212-US-PAT	10/945981	2006/0064266	7117112	Granted
12214	12214-US-CNT	11/556030	2007/0061096	7295945	Granted
12214	12214-US-PAT	10/945973	2006/0064269	7165003	Granted
12216	12216-US-CNT	12/335930	2009/0264158	8411100	Granted
12216	12216-US-PAT	10/946461	2006/0064638	7466320	Granted
12218	12218-US-CNT	12/243623	2009/0022316	7835527	Granted
12218	12218-US-PAT	10/950089	2006/0072758	7450721	Granted
12220	12220-US-CNT	12/199230	2008/0316225	8196062	Granted
12220	12220-US-CNT[2]	13/467749	2012/0218269	8584037	Granted
12220	12220-US-PAT	10/941763	2006/0055693	7451405	Granted
12222	12222-US-PAT	10/924795	2006/0048051		Abandoned
12224	12224-US-CNT	13/191705	2012/0023181	8583691	Granted
12224	12224-US-PAT	10/930486	2006/0047729		Abandoned
12226	12226-US-CNT	12/724557	2010/0174778	8266252	Granted
12226	12226-US-CNT[2]	13/570991	2012/0304049		Abandoned
12226	12226-US-PAT	10/930677	2006/0047743	7712027	Granted
12228	12228-US-PAT	10/941293	2006/0056604		Abandoned
12230	12230-US-CNT	12/861597	2010/0317290	8364082	Granted
12230	12230-US-CNT[2]	13/743070	2013/0130625	8660493	Granted
12230	12230-US-PAT	10/941488	2006/0058013	7783256	Granted
12232	12232-US-CNT	13/017155	2011/0124337	8897774	Granted
12232	12232-US-PAT	10/949299	2006/0068781	7904083	Granted
12236	12236-US-CNT	11/467763	2006/0285355	7415176	Granted
12236	12236-US-CNT[3]	12/634395	2010/0149205	7978942	Granted
12236	12236-US-CNT2	12/168093	2009/0010595	7646448	Granted
12236	12236-US-DIV	11/780314	2007/0291507	7445367	Granted
12236	12236-US-PAT	10/940988	2006/0056197	7113670	Granted
12238	12238-US-PAT	10/946385	2006/0073818		Abandoned
12250	12250-US-PAT	11/240204	2006/0075405	8671410	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
12250	12250-US-PRV	60/615972			Converted
12251	12251-US-PAT	11/240205	2006/0075406	8127010	Granted
12251	12251-US-PRV	60/616067			Converted
12252	12252-US-PAT	11/223777	2006/0055566	7534060	Granted
12252	12252-US-PRV	60/609147			Converted
12253	12253-US-CIP	11/831335	2008/0012830	8154518	Granted
12253	12253-US-CNT	13/414846	2012/0206368	8502784	Granted
12253	12253-US-CNT[2]	13/929281	2013/0289980	8791906	Granted
12253	12253-US-PAT	10/930742	2006/0044277	7477238	Granted
12261	12261-US-PAT	10/949942	2006/0067238	7525908	Granted
12273	12273-US-CNT	12/251128	2009/0043565	8489383	Granted
12273	12273-US-CNT[2]	13/917160	2013/0275123	8768685	Granted
12273	12273-US-CNT[3]	14/280169	2014/0247225	9588596	Granted
12273	12273-US-PAT	10/930740	2006/0047244	7475004	Granted
12275	12275-US-CNT	11/423314	2006/0293044	7285972	Granted
12275	12275-US-CNT2	11/853337	2008/0042911	7847742	Granted
12275	12275-US-PAT	11/010408	2006/0076961	7081869	Granted
12275	12275-US-PRV	60/617657			Converted
12276	12276-US-CNT	12/540921	2009/0304027	7908509	Granted
12276	12276-US-PAT	10/965762	2006/0085547	7590881	Granted
12278	12278-US-PAT	11/097285	2006/0073785	8818349	Granted
12278	12278-US-PRV	60/615582			Converted
12465	12465-US-CNT	13/368489	2012/0155490		Abandoned
12465	12465-US-PAT	10/971770	2006/0088009	8130633	Granted
12468	12468-US-CNT	12/943513	2011/0117904	8155645	Granted
12468	12468-US-CNT[2]	13/424006	2012/0178460		Abandoned
12468	12468-US-PAT	11/015007	2006/0133329	7853242	Granted
12471	12471-US-CNT	12/342291	2009/0164784	7849313	Granted
12471	12471-US-CNT[2]	12/940721	2011/0047383	8380990	Granted
12471	12471-US-CNT[3]	13/768142	2013/0159715	8738916	Granted
12471	12471-US-PAT	10/975442	2006/0101266	7489781	Granted
12473	12473-US-CNT	12/132326	2008/0235287	8136035	Granted
12473	12473-US-CNT[2]	13/399236	2012/0151333	9047592	Granted
12473	12473-US-PAT	10/980402	2006/0095859	7519924	Granted
12482	12482-US-CNT	12/204294	2009/0007026	8428657	Granted
12482	12482-US-CNT[2]	13/851992	2013/0211837	9153227	Granted
12482	12482-US-PAT	11/063561	2006/0189278		Abandoned
12484	12484-US-PAT	11/427212	2008/0126930		Abandoned
12486	12486-US-CNT	11/499291	2006/0271316	7317996	Granted
12486	12486-US-CNT[3]	12/689914	2010/0117657	8010305	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
12486	12486-US-CNT[4]	13/181777	2011/0267069	8271217	Granted
12486	12486-US-CNT[5]	13/589524	2012/0316816	8589098	Granted
12486	12486-US-CNT2	11/945765	2008/0086277	7676335	Granted
12486	12486-US-PAT	10/982461	2006/0100800	7107161	Granted
12488	12488-US-PAT	10/990441	2006/0103649	7230622	Granted
12490	12490-US-CNT	11/725733	2007/0182656	7586457	Abandoned
12490	12490-US-CNT[2]	12/544657	2009/0315800	8184063	Abandoned
12490	12490-US-PAT	10/984699	2006/0097948	7193579	Abandoned
12492	12492-US-CNT	12/463878	2009/0228699	8375282	Granted
12492	12492-US-PAT	11/059676	2006/0123313	7533331	Granted
12498	12498-US-CNT	12/834959	2010/0278043	7986626	Granted
12498	12498-US-CNT[2]	13/154757	2011/0249591	8254283	Granted
12498	12498-US-CNT[3]	13/492105	2012/0250554	8687517	Granted
12498	12498-US-PAT	10/991514	2006/0109786	7773517	Granted
12508	12508-US-CNT	12/272029	2009/0068997	8831576	Granted
12508	12508-US-PAT	10/981416	2006/0094421	7464169	Granted
12512	12512-US-CNT	13/118530	2011/0231401		Abandoned
12512	12512-US-PAT	11/221691	2006/0059185	7966323	Granted
12512	12512-US-PRV	60/608868			Converted
12513	12513-US-CNT	12/625688	2010/0066706	8310466	Granted
12513	12513-US-PAT	10/967695	2006/0082558	7639240	Granted
12515	12515-US-CNT	12/409170	2009/0180386	7944821	Granted
12515	12515-US-CNT[2]	13/031602	2011/0141896	8509065	Granted
12515	12515-US-PAT	11/000866	2006/0114821	7529184	Granted
12517	12517-US-CNT	12/328362	2009/0088193	8175625	Granted
12517	12517-US-CNT[2]	13/461077	2012/0220321	8463305	Granted
12517	12517-US-CNT[3]	13/461084	2012/0220322	8472989	Granted
12517	12517-US-CNT[4]	13/898593	2013/0252648	8855690	Granted
12517	12517-US-PAT	11/008956	2006-0128405	7477908	Granted
12519	12519-US-CNT	12/244869	2009/0029750	7555326	Granted
12519	12519-US-PAT	11/000456	2006/0116183	7454239	Granted
12536	12536-US-CNT	13/348920	2012/0117616	8583056	Granted
12536	12536-US-PAT	10/976303	2006/0094442	8099060	Granted
12538	12538-US-PAT	11/008023	2006/0126533	7420942	Granted
12597	12597-US-PAT	10/982480	2006/0099976	7583958	Granted
12601	12601-US-CNT	12/337690	2009/0146889	7936308	Abandoned
12601	12601-US-CNT[2]	13/042489	2011/0156968	8212730	Abandoned
12601	12601-US-PAT	11/014287	2006/0132364	7486241	Abandoned
12603	12603-US-CNT	11/952603	2008/0092085	8117238	Granted
12603	12603-US-PAT	11/018943	2006/0136371	7328214	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
12605	12605-US-CNT	12/362569	2009/0135956	8295403	Granted
12605	12605-US-CNT[2]	13/615349	2013/0016800	8477878	Granted
12605	12605-US-PAT	11/116233	2006/0104394	7508888	Granted
12605	12605-US-PRV	60/628552			Converted
12607	12607-US-CNT	12/771194	2010/0211795	8725643	Granted
12607	12607-US-CNT[2]	14/250493	2014/0223186	9621352	Granted
12607	12607-US-PAT	10/975988	2006/0095388	7716139	Granted
12609	12609-US-CNT	12/429864	2009/0210506	7756939	Granted
12609	12609-US-CNT[2]	12/832268	2010/0275133	8285801	Granted
12609	12609-US-CNT[3]	13/605029	2012/0331079	8606871	Granted
12609	12609-US-PAT	11/011370	2006/0167976	7548954	Granted
12611	12611-US-CNT	12/981689	2011/0099381	8341399	Granted
12611	12611-US-CNT[2]	13/614574	2013/0013918	8775798	Granted
12611	12611-US-CNT[3]	13/614824	2013/0007445	8788812	Granted
12611	12611-US-PAT	10/975987	2006/0112419	7886144	Granted
12613	12613-US-CNT[2]	15/131827	2016/0234849	10278187	Granted
12613	12613-US-CNT[3]	16/374572	2019/0230669	10925068	Granted
12613	12613-US-CNT[4]	17/175416	2021/0208904		Publication of Application
12613	12613-US-PAT	11/287638	2006/0114871		Abandoned
12613	12613-US-PAT2	11/287857	2006/0116125	8423016	Granted
12613	12613-US-PAT3	11/287637	2006/0114870	9319973	Granted
12613	12613-US-PRV	60/631457			Converted
12614	12614-US-CNT	11/683705	2008/0109518	7885649	Granted
12614	12614-US-CNT[2]	12/979136	2011/0093795	8280367	Granted
12614	12614-US-CNT[3]	13/595334	2012/0324371		Abandoned
12614	12614-US-PAT	10/997178	2006/0111086	7212814	Granted
12618	12618-US-CNT	12/142155	2008/0271136	7536718	Granted
12618	12618-US-PAT	11/017902	2006/0135141	7412232	Granted
12620	12620-US-CNT	12/582446	2010/0042698	7930358	Granted
12620	12620-US-CNT[2]	13/049128	2011/0167124	8234347	Granted
12620	12620-US-CNT[3]	13/537113	2013/0013703	8577982	Granted
12620	12620-US-PAT	11/002583	2006/0123085	7631043	Granted
12623	12623-US-CNT	12/429606	2009/0227200	7881707	Granted
12623	12623-US-CNT[2]	12/972637	2011/0083545	8014766	Granted
12623	12623-US-PAT	10/995428	2006/0111088	7542730	Granted
12625	12625-US-CNT	12/488769	2009/0258662	7809383	Granted
12625	12625-US-CNT[2]	12/891456	2011/0014934	8009650	Granted
12625	12625-US-CNT[3]	13/188015	2011/0283198	8325694	Granted
12625	12625-US-PAT	11/314023	2006/0133340	7567542	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
12625	12625-US-PRV	60/637768			Converted
12628	12628-US-CNT	12/900908	2011/0021254	8175662	Granted
12628	12628-US-CNT[2]	13/355954	2012/0122527	8706173	Granted
12628	12628-US-PAT	10/995221	2008/0008313	7826874	Granted
12630	12630-US-CNT	12/796469	2010/0291977		Abandoned
12630	12630-US-PAT	10/995220	2006/0116178	7769415	Granted
12632	12632-US-CNT	12/464727	2009/0226021	8094856	Granted
12632	12632-US-CNT[2]	13/324511	2012/0087530	8548185	Granted
12632	12632-US-CNT[3]	14/013851	2014/0050348	9055361	Granted
12632	12632-US-PAT	10/989071	2006/0104469	7548628	Granted
12634	12634-US-PAT	11/020151	2006/0143282		Abandoned
12637	12637-US-CNT	12/758478	2010/0195854	8538051	Abandoned
12637	12637-US-CNT[2]	13/959783	2013/0324197	8792662	Abandoned
12637	12637-US-PAT	11/025752	2006/0140428	7706556	Abandoned
12639	12639-US-CNT	13/251619	2012/0028621	8295822	Granted
12639	12639-US-CNT[2]	13/616767	2013/0005317	9369583	Granted
12639	12639-US-PAT	11/017933	2006/0135138	8060070	Granted
12641	12641-US-CNT	12/361730		8078148	Granted
12641	12641-US-PAT	11/314976	2006/0141992	7574204	Granted
12641	12641-US-PRV	60/639251			Converted
12642	12642-US-PAT	11/170819	2006/0168129		Abandoned
12642	12642-US-PRV	60/638814			Converted
12657	12657-US-PAT	11/032098	2006/0155863	7752272	Granted
12659	12659-US-PAT	11/317216	2006/0218224	8548943	Granted
12659	12659-US-PRV	60/639053			Converted
12663	12663-US-PAT	10/971321	2006/0101082	7840528	Granted
12669	12669-US-CNT	12/401447	2009/0167687	7692633	Granted
12669	12669-US-CNT[2]	12/696979	2010/0134417	8284163	Granted
12669	12669-US-CNT[3]	13/632841	2013/0027311	8659552	Granted
12669	12669-US-PAT	11/035793	2006/0158428	7532198	Granted
12671	12671-US-PAT	11/078427	2006/0206863	7493594	Granted
12673	12673-US-CNT	12/885928	2011/0023013	8407666	Granted
12673	12673-US-PAT	11/078331	2006/0206861	7941784	Granted
12676	12676-US-PAT	11/076054	2006/0206890	7895566	Granted
12678	12678-US-CNT	12/631320	2010/0131922	8132149	Granted
12678	12678-US-CNT[2]	12/633155	2010/0199261	7921408	Granted
12678	12678-US-PAT	11/078430	2006/0206864	7657868	Granted
12680-1	12680-1-US-PAT	11/069970	2006/0200748	7814404	Granted
12684	12684-US-CNT	12/199231	2008/0318542	8190113	Granted
12684	12684-US-CNT[2]	13/463140	2012/0220242	8447257	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
12684	12684-US-CNT[3]	13/871171	2013/0244607	8965321	Granted
12684	12684-US-PAT	11/120948	2006/0154635	7433666	Granted
12684	12684-US-PRV	60/642551			Converted
12685	12685-US-CNT	13/350100	2012/0115434	8422991	Granted
12685	12685-US-PAT	11/288149	2006/0143098	8099078	Granted
12685	12685-US-PRV	60/631195			Converted
12688	12688-US-CNT	13/760262			Abandoned
12688	12688-US-PAT	11/036666	2006/0161628	8392554	Granted
12690	12690-US-CNT	12/577392	2010/0030950	8024510	Granted
12690	12690-US-PAT	11/314169	2006/0253642	7603511	Granted
12690	12690-US-PRV	60/639351			Converted
12691	12691-US-CNT	12/561823	2010/0011121		Abandoned
12691	12691-US-PAT	11/171812	2006/0168349		Abandoned
12691	12691-US-PRV	60/639077			Converted
12696	12696-US-PAT	11/030122	2006/0154696	7865215	Granted
12698	12698-US-CNT	12/659686	2010/0223045	8401838	Granted
12698	12698-US-CNT[2]	13/764639	2013/0166277		Abandoned
12698	12698-US-PAT	10/930639	2006/0047498	7711542	Granted
12700	12700-US-CNT	12/542109	2009/0300130	7975014	Granted
12700	12700-US-CNT[2]	13/106408	2011/0219085	8126981	Granted
12700	12700-US-CNT[3]	13/355808	2012/0124155	8769027	Granted
12700	12700-US-PAT	11/050869	2006/0178134	7593993	Granted
12702	12702-US-CNT	12/233909	2009/0024744	7761580	Granted
12702	12702-US-PAT	11/038229	2006/0168243	7444409	Granted
12704	12704-US-CNT	13/961448	2013/0326015	9661063	Granted
12704	12704-US-PAT	11/045260	2006/0174017	8532622	Granted
12720	12720-US-PAT	11/046086	2006/0172735	8229431	Granted
12722	12722-US-CNT	13/617821	2013/0010778	8700061	Granted
12722	12722-US-PAT	10/991359	2006/0109825	8295838	Granted
12724	12724-US-CNT	11/559020	2007/0087737	7747247	Granted
12724	12724-US-CNT[2]	12/781002	2010/0220602	7945257	Granted
12724	12724-US-CNT[3]	13/080082	2011/0182190	8200207	Granted
12724	12724-US-CNT[4]	13/467727	2012/0218880	8666386	Granted
12724	12724-US-PAT	10/991386	2006/0111098	7349690	Granted
12726	12726-US-PAT	10/991408	2006-0111099		Abandoned
12728	12728-US-CNT	12/263936	2009/0061861		Abandoned
12728	12728-US-PAT	11/035510	2006/0160532	7447502	Abandoned
12730	12730-US-PAT	11/025777	2006/0141999	7184760	Granted
12732	12732-US-PAT	11/038246	2006/0164436	7312798	Granted
12734	12734-US-CNT	12/549576	2009/0318117	8693989	Granted

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12734	12734-US-PAT	10/988270	2006/0105743	7603105	Granted
12736	12736-US-PAT	11/039952	2006/0168355	7853674	Granted
12738	12738-US-CNT	12/780514	2010/0223560	8446911	Granted
12738	12738-US-PAT	11/039910	2006/0165105	7729363	Granted
12742	12742-US-CNT	12/973288	2011/0281521	8185051	Granted
12742	12742-US-CNT[2]	13/453428	2012/0203902	8583084	Granted
12742	12742-US-PAT	11/020318	2006/0234630	7869762	Granted
12744	12744-US-PAT	11/019941	2006/0143264	7917133	Granted
12746	12746-US-CNT	12/235459	2009/0029727	7933618	Granted
12746	12746-US-PAT	11/041465	2006/0166689	7430426	Granted
12748	12748-US-PAT	11/041124	2006/0187864	8005032	Granted
12748-1	12748-1-US-CNT	12/538130	2009/0296618	8363596	Granted
12748-1	12748-1-US-CNT[2]	13/706834	2013/0094421	9036553	Granted
12748-1	12748-1-US-PAT	11/041113	2006/0165031	7593417	Granted
12756	12756-US-PAT	11/039925	2006/0166660	7317913	Granted
12758	12758-US-PAT	11/030917	2006/0153063	7646753	Granted
12760	12760-US-PAT	11/045071	2006/0172724	7317907	Granted
12762	12762-US-PAT	11/048216	2006/0172785	7383067	Granted
12764	12764-US-CNT	12/195821	2008/0305746	8165627	Granted
12764	12764-US-PAT	11/045072	2006/0172706	7430439	Granted
12772	12772-US-CNT	12/943288	2011/0059725	9596601	Granted
12772	12772-US-CNT[2]	15/439345	2017/0164202	10524129	Granted
12772	12772-US-CNT[3]	16/598018	2020/0045551		Publication of Application
12772	12772-US-PAT	11/055489	2006/0183461		Abandoned
12774	12774-US-CNT	12/566747	2010/0007638	7831260	Granted
12774	12774-US-PAT	11/045073	2006/0172745	7627330	Granted
12776	12776-US-PAT	11/055057	2006/0180621		Abandoned
12784	12784-US-CNT	12/984411	2011/0096763	8023992	Granted
12784	12784-US-CNT[2]	13/222054	2011/0319041	9130640	Granted
12784	12784-US-PAT	11/054159	2006/0178116	7890133	Granted
12798	12798-US-CNT	11/780913	2008/0012590	7501841	Granted
12798	12798-US-CNT[2]	12/360323	2009/0134899	7675304	Granted
12798	12798-US-PAT	11/051012	2006/0176065	7268567	Granted
20216	20216-US-PAT	12/648411	2010/0167696	8948726	Granted
20216	20216-US-PRV	61/141101			Converted
20259	20259-US-PAT	11/026456	2006/0146833	7630316	Granted
20327	20327-US-PAT	11/302888	2007/0135144	7917136	Granted
20517	20517-US-CNT	12/603816	2010/0040118	8345731	Granted
20517	20517-US-CNT[2]	13/709554	2013/0094540	8837557	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
20517	20517-US-PAT	11/177273	2007/0008195	7616707	Granted
20527	20527-US-CNT	11/965251	2008/0130892	8078144	Granted
20527	20527-US-PAT	10/903853	2006/0030294	7333442	Granted
20627	20627-US-PAT	11/608299	2008/0139130		Abandoned
20629	20629-US-CNT	12/153593	2008/0229229		Abandoned
20629	20629-US-CNT[2]	14/521445	2015/0046840	9584457	Granted
20629	20629-US-PAT	11/305219	2007/0143710		Abandoned
20629	20629-US-PCT	12/086766	2009/0150820	8887080	Granted
20660	20660-US-CNT	13/013622	2011/0119599	8539365	Granted
20660	20660-US-CNT[2]	13/966733	2013/0332851	9571431	Granted
20660	20660-US-PAT	11/402139	2007/0242656	7890875	Granted
20666	20666-US-DIV	13/289298	2012/0050169	8217288	Granted
20666	20666-US-PAT	11/832068	2009/0033521		Abandoned
20699	20699-US-CNT	12/119699	2008/0211697	7999791	Granted
20699	20699-US-PAT	11/063682	2006/0187210	7388576	Granted
20708	20708-US-CNT	13/302615	2012/0071144		Abandoned
20708	20708-US-PAT	11/420789	2007/0275745	8085891	Granted
20710	20710-US-PAT	11/738856	2008/0261630		Abandoned
20729	20729-US-PAT	11/554213	2008/0104537		Abandoned
20734	20734-US-DES	29/228963		D530322	Expired
20734	20734-US-PAT	11/119010	2006/0246954	7363064	Granted
20821	20821-US-CNT	13/311015	2012/0076053	8331340	Granted
20821	20821-US-CNT[2]	13/613538	2013/0051281		Abandoned
20821	20821-US-PAT	11/669692	2008/0182565	8085742	Granted
20841	20841-US-PAT	12/031012	2008/0201668		Abandoned
20841	20841-US-PRV	60/889964			Converted
20849	20849-US-DES	29/223990		D527374	Expired
20849	20849-US-DES1	29/223959		D522494	Expired
20849	20849-US-DES2	29/223973		D524292	Expired
20849	20849-US-PAT	11/063680	2006/0199564		Abandoned
20861	20861-US-PAT	11/063567	2006/0190485	8060539	Granted
20896	20896-US-PAT	11/199542	2007/0030249	7733330	Granted
20904	20904-US-CNT	13/426143	2012/0177008	8619715	Granted
20904	20904-US-PAT	11/615284	2008/0151868	8194605	Granted
20905	20905-US-CNT	12/700118	2010/0135184	7936724	Granted
20905	20905-US-CNT[2]	13/070647	2011/0170520	8121648	Granted
20905	20905-US-CNT[3]	13/351584	2012/0120918	8868082	Granted
20905	20905-US-PAT	11/743741	2008/0273506	7684370	Granted
20906	20906-US-PAT	11/669719	2008/0181184	7774000	Granted
20907	20907-US-CIP	11/611293	2008/0040486	8032174	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
20907	20907-US-CNT	13/231593	2012/0233672	8437324	Granted
20908	20908-US-PAT	11/447895	2007/0288658	8086673	Granted
20930	20930-US-PAT	11/196363	2007/0029373	8010610	Granted
20957	20957-US-CNT	12/488765	2009/0259904	7856580	Granted
20957	20957-US-CNT[2]	12/944949	2011/0060953	7987397	Granted
20957	20957-US-PAT	11/413028	2007/0266289	7610529	Granted
20958	20958-US-DIV	12/692297	2010/0120469	8346297	Granted
20958	20958-US-PAT	11/235367	2007/0072647	7684821	Granted
20965	20965-US-CIP	11/671961	2007/0252817	7986301	Granted
20965	20965-US-CIP10	11/672006	2007/0254699	8219158	Granted
20965	20965-US-CIP11	11/672008	2007/0254700		Abandoned
20965	20965-US-CIP12	11/672011	2007/0254701		Abandoned
20965	20965-US-CIP13	11/672016	2007/0254702	8271036	Granted
20965	20965-US-CIP14	11/672017	2007/0254703		Abandoned
20965	20965-US-CIP15	11/672021	2007/0254704		Abandoned
20965	20965-US-CIP16	11/672023	2007/0254705		Abandoned
20965	20965-US-CIP17	11/672024	2007/0259697		Abandoned
20965	20965-US-CIP18	11/672026	2007/0268259	7982712	Granted
20965	20965-US-CIP19	11/308436	2007/0126703	7626516	Granted
20965	20965-US-CIP2	11/672028	2007/0254706	7973765	Granted
20965	20965-US-CIP3	11/671977	2007/0254689		Abandoned
20965	20965-US-CIP4	11/671976	2007/0254688		Abandoned
20965	20965-US-CIP5	11/671985	2007/0254690	8463315	Granted
20965	20965-US-CIP6	11/672032	2007/0254708		Abandoned
20965	20965-US-CIP7	11/671996	2007/0254698		Abandoned
20965	20965-US-CIP8	11/671995	2007/0254721		Abandoned
20965	20965-US-CIP9	11/672031	2007/0254707	8064946	Granted
20965	20965-US-PAT	11/164807	2007/0126702	7456759	Granted
20971	20971-US-PAT	11/845136	2009/0058809	8593404	Granted
21000	21000-US-PAT	11/347451	2007/0182715		Abandoned
21013	21013-US-CNT	12/731842	2010/0177078	8289271	Granted
21013	21013-US-CNT[2]	13/619306	2013/0009927		Abandoned
21013	21013-US-PAT	11/066451	2006/0192749	8279158	Granted
21018	21018-US-CNT	13/686550	2013/0082934	8692766	Granted
21018	21018-US-PAT	11/182223	2007/0013650	8373651	Granted
21020	21020-US-PAT	11/524514	2008/0074366	7777708	Granted
21036	21036-US-CNT	12/818649	2010/0257376		Abandoned
21036	21036-US-PAT	11/221196	2007/0055890	7783896	Granted
21037	21037-US-CNT	12/973555	2011/0084908	8527010	Granted
21037	21037-US-CNT[2]	13/946733	2013/0305179	9436363	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
21037	21037-US-PAT	11/164803	2007/0082708	7869832	Granted
21053	21053-US-CNT	13/617039	2013/0066999	8578171	Granted
21053	21053-US-CNT[2]	14/046615	2014/0040396	9998412	Granted
21053	21053-US-PAT	11/159101	2006/0288219	8429411	Granted
21056	21056-US-PAT	11/281424	2007/0118874	8191105	Granted
21065	21065-US-CNT	13/209159	2011/0299515	8488576	Granted
21065	21065-US-PAT	11/611274	2008/0148359	8023994	Granted
21067	21067-US-CNT	12/351025	2009/0121020	7828212	Abandoned
21067	21067-US-PAT	11/263091	2007/0095910	7475818	Abandoned
21070	21070-US-CNT	12/868923	2010/0315344	8259071	Granted
21070	21070-US-CNT[2]	13/569232	2012/0297340	8730171	Granted
21070	21070-US-PAT	11/053766	2006/0176280	7808486	Granted
21076	21076-US-CNT	11/735054	2007/0184818	9014725	Granted
21076	21076-US-PAT	11/066466	2006/0194592	7221949	Granted
21083	21083-US-CNT	13/586995	2012/0309380	8798589	Granted
21083	21083-US-PAT	11/259270	2007/0099599	8280354	Granted
21087	21087-US-CNT	12/724687	2010/0175117	8195161	Granted
21087	21087-US-PAT	11/391946	2006/0223530	7711362	Granted
21087	21087-US-PRV	60/665960			Converted
21092	21092-US-CNT	12/268011	2009/0068972	7853230	Granted
21092	21092-US-CNT[2]	12/942253	2011/0053542	8116712	Granted
21092	21092-US-CNT[3]	13/309251	2012/0142299	8275335	Granted
21092	21092-US-CNT[4]	13/598292	2012/0322397	8571505	Granted
21092	21092-US-PAT	11/065406	2006/0189288	7463872	Granted
21103	21103-US-CNT	14/456037	2014/0351794	9104807	Granted
21103	21103-US-PAT	11/220820	2006/0077100	8832656	Granted
21103	21103-US-PRV	60/607740			Converted
21104	21104-US-CNT	13/009374	2012/0117134	8694571	Granted
21104	21104-US-PAT	11/220821	2006/0053191	7877431	Granted
21104	21104-US-PRV	60/607772			Converted
21105	21105-US-PAT	11/249599	2007/0087783	7958300	Granted
21125	21125-US-CNT	12/029870	2008/0132203	8090348	Granted
21125	21125-US-PAT	10/997577	2006/0111081	7356330	Granted
21126	21126-US-PAT	10/997555	2006/0111039	7957726	Granted
21127	21127-US-CNT	13/091206	2011/0211530	8400970	Abandoned
21127	21127-US-PAT	10/996702	2006/0111080	7961883	Abandoned
21128	21128-US-CNT	12/773330	2010/0217998	7920865	Granted
21128	21128-US-PAT	10/996925	2006/0111105	7738868	Granted
21136	21136-US-PAT	11/429124	2007/0099662	7693549	Granted
21143	21143-US-CNT	12/703976	2010/0144348	8078168	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
21143	21143-US-CNT[2]	13/292311	2012/0052862	8331930	Granted
21143	21143-US-PAT	11/280686	2007/0111740	7689216	Granted
21144	21144-US-CNT	12/789110	2010/0238865	8340025	Granted
21144	21144-US-CNT[2]	13/611484	2013/0003702	8649331	Granted
21144	21144-US-CNT[3]	14/153452	2014/0126377	9369924	Granted
21144	21144-US-CNT[4]	15/178000	2016/0295433	10419956	Granted
21144	21144-US-PAT	11/414568	2007/0253364	7738416	Granted
21153	21153-US-CNT	12/690211	2010/0122350	9553969	Granted
21153	21153-US-PAT	11/181522	2007/0015490	7665146	Granted
21157	21157-US-PAT	11/051581	2006/0176015	7504802	Granted
21159	21159-US-CNT	12/946632	2012/0122425	8355701	Granted
21159	21159-US-CNT[2]	13/615946	2013/0012248	8611936	Granted
21159	21159-US-CNT[3]	13/615969	2013/0003974		Abandoned
21159	21159-US-PAT	11/291178	2007/0123307	7840207	Granted
21163	21163-US-CNT	12/564015	2010/0014499	7962156	Granted
21163	21163-US-CNT[2]	13/102031	2011/0207486	8107974	Granted
21163	21163-US-PAT	11/167146	2006/0293064	7653400	Granted
21168	21168-US-CNT	13/035323	2011/0143788	8204526	Granted
21168	21168-US-CNT[2]	13/484985	2012/0238300		Abandoned
21168	21168-US-PAT	11/313813	2007/0149223	7904099	Granted
21176	21176-US-PAT	11/185192	2007/0022213		Abandoned
21183	21183-US-CNT	12/368368	2009/0149176	8401548	Granted
21183	21183-US-PAT	11/083477	2006/0211421	7509125	Granted
21187	21187-US-PAT	11/421175	2007/0281675		Abandoned
21187-1	21187-1-US-PAT	11/421185	2007/0279387	8072427	Abandoned
21187-2	21187-2-US-PAT	11/421254	2007/0279388		Abandoned
21187-3	21187-3-US-PAT	11/421272	2007/0281747	7953448	Granted
21197	21197-US-CNT	12/755773	2010/0287467		Abandoned
21197	21197-US-PAT	11/093853	2006/0225001	7725813	Granted
21199	21199-US-CNT	12/627753	2010/0122325	7937073	Granted
21199	21199-US-CNT[2]	13/045300	2011/0165863	8107928	Granted
21199	21199-US-CNT[3]	13/333583	2012/0093083	8532621	Granted
21199	21199-US-PAT	11/213571	2007/0077914	7634253	Granted
21200	21200-US-CNT	12/716060	2010/0159968	7974392	Granted
21200	21200-US-PAT	11/081939	2006/0210028	7706510	Granted
21201	21201-US-CNT	11/746413	2007/0266010	7895230	Granted
21201	21201-US-CNT[2]	13/005802	2011/0167086		Abandoned
21201	21201-US-PAT	11/001504	2006/0117019	7277890	Granted
21206	21206-US-PAT	11/100607	2006/0227808	9363306	Granted
21208	21208-US-CNT	12/362132	2009/0134837	7812573	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
21208	21208-US-CNT[2]	12/901627	2011/0025261	7952320	Granted
21208	21208-US-CNT[3]	13/095131	2011/0199050	8120314	Granted
21208	21208-US-CNT[4]	13/351913	2012/0119703	8531155	Granted
21208	21208-US-PAT	11/293902	2007/0126393	7511452	Granted
21209	21209-US-PAT	11/364176	2007/0208853	8131805	Granted
21217	21217-US-CNT	12/185350	2008/0291060	7683806	Granted
21217	21217-US-DIV	11/736364	2007/0185944	7420478	Granted
21217	21217-US-DIV2	11/736385	2007/0186017	7432831	Granted
21217	21217-US-PAT	11/063121	2006/0197685	7215258	Granted
21220	21220-US-PAT	11/329031	2007/0162548	8296401	Granted
21221	21221-US-CNT	11/952757	2008/0076460	7945248	Granted
21221	21221-US-PAT	11/061203	2006/0189299	7308252	Granted
21234	21234-US-CNT	13/571427	2012/0304080	10979400	Granted
21234	21234-US-PAT	11/184845	2007/0022163	8266219	Granted
21237	21237-US-PAT	11/468314	2008/0250397	7895569	Granted
21238	21238-US-CNT	11/739860	2007/0285050	7439709	Granted
21238	21238-US-CNT[2]	12/234798	2009/0021215	7688030	Granted
21238	21238-US-PAT	11/071786	2006/0197495	7265517	Granted
21247	21247-US-CNT	12/204898	2009/0006497	7778801	Granted
21247	21247-US-PAT	11/266361	2007/0124305	7433804	Granted
21257	21257-US-CNT	12/644577	2010/0121725	8240560	Granted
21257	21257-US-CNT[2]	13/584096	2012/0310835	8640950	Granted
21257	21257-US-CNT[3]	14/141822	2014/0114858	9092771	Granted
21257	21257-US-PAT	11/319783	2007/0152035	7641111	Granted
21259	21259-US-PAT	11/556718	2008/0109462	8463855	Granted
21265	21265-US-CNT	12/610590	2010/0049979	8019085	Granted
21265	21265-US-CNT[2]	13/212225	2011/0302407	8290166	Granted
21265	21265-US-CNT[3]	13/612997	2013/0024683	8667266	Granted
21265	21265-US-PAT	11/073677	2006/0204011	7613304	Granted
21272	21272-US-PAT	11/304611	2007/0143612		Abandoned
21277	21277-US-PAT	11/086354	2006/0218415		Abandoned
21279	21279-US-PAT	11/332429	2007/0167165	8060098	Granted
21281	21281-US-PAT	11/043434	2006/0164981	7796505	Granted
21283	21283-US-PAT	11/208732	2007/0054627	9864628	Granted
21284	21284-US-CNT	12/758299	2010/0199160	8584010	Granted
21284	21284-US-PAT	11/257075	2007/0094588	7730398	Granted
21287	21287-US-CNT	11/859224	2008/0062014	8072355	Granted
21287	21287-US-CNT[2]	13/648134	2013/0033430	9146621	Granted
21287	21287-US-DIV	13/286046	2012/0062466	8350729	Granted
21287	21287-US-PAT	11/188307	2007/0018855	7312410	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
21288	21288-US-CNT	12/546782	2009/0309837	7912704	Granted
21288	21288-US-CNT[2]	13/029170	2011/0137640	8185379	Granted
21288	21288-US-CNT[3]	13/454820	2012/0209593	8290895	Granted
21288	21288-US-CNT[4]	13/618991	2013/0013294	8626706	Granted
21288	21288-US-CNT[5]	14/094672	2014/0088956	9141599	Granted
21288	21288-US-PAT	11/081845	2006/0217965	7599830	Granted
21293	21293-US-PAT	11/463029	2008/0037734	8019058	Granted
21294	21294-US-CNT	14/189635	2014/0181713	9213469	Granted
21294	21294-US-PAT	11/532409	2007/0080954	8689147	Granted
21294	21294-US-PRV	60/724458			Converted
21300	21300-US-CNT	12/722213	2010/0164866	8411035	Granted
21300	21300-US-PAT	11/062719	2006/0187202	7724239	Granted
21305	21305-US-PAT	11/135119	2006/0265263	8751279	Granted
21309	21309-US-CNT	11/859970	2008/0014996	7424287	Granted
21309	21309-US-CNT2	12/185359	2008/0293452	7689206	Granted
21309	21309-US-PAT	11/064709	2006/0189301	7286820	Granted
21315	21315-US-PAT	11/238069	2007/0072617	7715825	Granted
21318	21318-US-CNT	12/957950	2011/0069826	8103262	Granted
21318	21318-US-PAT	11/191006	2007/0026848	7869799	Granted
21319	21319-US-PAT	11/352315	2007/0192418	8296370	Granted
21324	21324-US-CNT	12/354248	2009/0124252	7912463	Granted
21324	21324-US-PAT	11/066240	2006/0194552	7542764	Granted
21326	21326-US-CNT	12/964426	2011/0081896	8112071	Granted
21326	21326-US-PAT	11/217010	2007/0049261	7894805	Granted
21329	21329-US-CNT	12/470782	2009/0230920	8436579	Granted
21329	21329-US-PAT	11/471698	2008/0007218	7554292	Granted
21330	21330-US-PAT	11/747388	2008/0278119	8063606	Granted
21333	21333-US-DIV	12/032367	2008/0199127	7760975	Granted
21333	21333-US-PAT	11/187867	2007/0019433	7352930	Granted
21344	21344-US-CNT	13/196925	2011/0289554	8254884	Granted
21344	21344-US-CNT[2]	13/561374	2012/0297443	8699999	Granted
21344	21344-US-PAT	11/282564	2007/0118558	8045958	Granted
21350	21350-US-CNT	12/122249	2008/0212298	7684212	Granted
21350	21350-US-PAT	11/150138	2006/0279939	7408786	Granted
21351	21351-US-PAT	11/216054	2007/0050730	8707205	Granted
21353	21353-US-CNT	12/772467	2010/0227653	7957776	Granted
21353	21353-US-CNT[2]	13/097159	2011/0199750	8190215	Granted
21353	21353-US-PAT	11/524468	2008/0076484	7738928	Granted
21357	21357-US-CNT	12/470807	2009/0235351	8239934	Granted
21357	21357-US-CNT[2]	13/540686	2012/0272053	8640222	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
21357	21357-US-PAT	11/147195	2006/0282889	7565689	Granted
21358	21358-US-CNT	13/406594	2012/0157022	8472995	Granted
21358	21358-US-PAT	11/232952	2007/0072565	8150440	Granted
21361	21361-US-CNT	13/616399	2013/0060563	8532977	Granted
21361	21361-US-CNT[2]	13/964269	2013/0325444	8868403	Granted
21361	21361-US-PAT	11/082245	2007/0005336	8290765	Granted
21362	21362-US-CIP	11/831419	2008/0010055		Abandoned
21362	21362-US-PAT	11/075386	2006/0206815		Abandoned
21363	21363-US-PAT	11/074571	2006/0202866		Abandoned
21372	21372-US-CNT	13/616121	2013/0036310	8977862	Granted
21372	21372-US-PAT	12/394278	2010/0223475	8301903	Granted
21378	21378-US-CNT	12/188958	2008/0298324	7685233	Granted
21378	21378-US-CNT[2]	12/698491	2010/0135218		Abandoned
21378	21378-US-PAT	10/990073	2006/0104246	7433961	Granted
21379	21379-US-CNT	13/018197	2011/0125786	8731546	Granted
21379	21379-US-CNT[2]	14/262842	2014/0228015	8971878	Granted
21379	21379-US-PAT	11/114560	2006/0239215	7894809	Granted
21381	21381-US-CNT	12/946712	2011/0058519	8090349	Granted
21381	21381-US-PAT	10/981424	2006/0094354	7835722	Granted
21382	21382-US-CNT	12/823274	2010/0259479	7940248	Granted
21382	21382-US-CNT[2]	13/069106	2011/0169741	8466877	Granted
21382	21382-US-PAT	11/357201	2007/0195062	7777725	Granted
21387	21387-US-CNT	11/763945	2007/0238495	7797025	Granted
21387	21387-US-PAT	11/167095	2006/0293091	7280855	Granted
21388	21388-US-CNT	12/552496	2009/0319633	8024414	Granted
21388	21388-US-CNT[2]	13/212295	2011/0302261	8103735	Granted
21388	21388-US-PAT	11/265297	2007/0100948	7603424	Granted
21389	21389-US-CNT	12/938648	2011/0044289	8289941	Granted
21389	21389-US-CNT[2]	13/615883	2013/0003706	8437326	Granted
21389	21389-US-PAT	11/428561	2007/0008928	7852815	Granted
21389	21389-US-PRV	60/696223			Converted
21394	21394-US-PAT	11/266198	2007/0106728	9043393	Granted
21396	21396-US-PAT	11/195615	2006/0294304		Abandoned
21396	21396-US-PRV	60/693412			Converted
21397	21397-US-PAT	11/128604	2006/0256070		Abandoned
21398	21398-US-CNT	13/862012	2013/0239016	9148393	Granted
21398	21398-US-PAT	11/461626	2007/0073810	8429292	Granted
21398	21398-US-PRV	60/719966			Converted
21399	21399-US-CNT	13/111086	2011/0222709	8737923	Granted
21399	21399-US-PAT	11/296263	2007/0133818	7962099	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
21400	21400-US-CNT	13/572139	2012/0311055	9710791	Granted
21400	21400-US-CNT[2]	15/648821	2017/0308862	10062056	Granted
21400	21400-US-CNT[3]	16/057053	2018/0341921	11113671	Granted
21400	21400-US-CNT[4]	17/388831	2021/0357866		Publication of Application
21400	21400-US-PAT	11/266200	2007/0106729		Abandoned
21405	21405-US-CNT	13/091523	2011/0196989	8099595	Granted
21405	21405-US-CNT[2]	13/315482	2012/0079269	8645684	Granted
21405	21405-US-PAT	11/259372	2007/0101025	7953971	Granted
21411	21411-US-PAT	11/406291	2006/0235872	9031907	Granted
21411	21411-US-PRV	60/672540			Converted
21412	21412-US-PAT	11/100591	2006/0230293	7383452	Granted
21413	21413-US-CNT	13/657483	2013/0045714		Abandoned
21413	21413-US-PAT	11/192593	2007/0026906	8295894	Granted
21414	21414-US-CNT	13/023998	2011/0128232	8319734	Granted
21414	21414-US-PAT	11/226003	2007/0057030	7911450	Granted
21416	21416-US-PAT	11/152165	2007/0006154	7559055	Granted
21417	21417-US-CNT	12/049854	2008/0158804	8233282	Granted
21417	21417-US-CNT[2]	13/533058	2012/0268903	8824152	Granted
21417	21417-US-CNT[3]	14/448222	2014/0340824	9052870	Granted
21417	21417-US-PAT	11/055083	2006/0181841	7362585	Granted
21423	21423-US-CNT	12/688288	2010/0121962	8661142	Granted
21423	21423-US-PAT	11/159118	2007/0011367	7673055	Granted
21425	21425-US-PAT	11/263020	2007/0099657	8954511	Granted
21426	21426-US-CNT	13/196794	2012/0015624	8898594	Granted
21426	21426-US-PAT	11/246534	2007/0083827	8037421	Granted
21428	21428-US-PAT	11/199081	2007/0037526		Abandoned
21431	21431-US-CNT	11/762420	2007/0236871	7528596	Granted
21431	21431-US-PAT	11/072224	2006/0197535	7245119	Granted
21434	21434-US-CNT	13/408552	2012/0166565	8457669	Granted
21434	21434-US-PAT	11/829478	2009/0029724	8204521	Granted
21441	21441-US-PAT	11/439954	2007/0275767		Abandoned
21446	21446-US-CNT	13/024634	2011/0138178	8099592	Granted
21446	21446-US-CNT[2]	13/327891	2012/0089840	8694769	Granted
21446	21446-US-PAT	11/346255	2007/0192584	7904709	Granted
21450	21450-US-CNT	12/475986	2009/0240888	7900001	Granted
21450	21450-US-CNT[2]	13/036764			Abandoned
21450	21450-US-PAT	11/202786	2007/0038820	7543122	Granted
21456	21456-US-PAT	11/246465	2007/0080946		Abandoned
21457	21457-US-CNT	13/118513	2011/0258446	8429413	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
21457	21457-US-PAT	11/972463	2009/0183230	7975144	Granted
21459	21459-US-CNT	13/299520	2012/0124371	8407468	Granted
21459	21459-US-PAT	11/202081	2007/0038855	8078867	Granted
21461	21461-US-CNT	12/836707	2010/0281531	8209423	Granted
21461	21461-US-CNT[2]	13/454456	20120209930		Abandoned
21461	21461-US-PAT	11/876872	2009/0106427	7818434	Granted
21463	21463-US-CNT	12/874325	2010/0332848	8452970	Granted
21463	21463-US-PAT	11/237727	2007/0074034	7797545	Granted
21464	21464-US-PAT	11/237725	2007/0074032		Abandoned
21465	21465-US-PAT	11/237726	2007/0074033		Abandoned
21466	21466-US-CNT	13/682635	2013/0114808	9077524	Granted
21466	21466-US-PAT	11/237723	2007/0071238	8340289	Granted
21472	21472-US-CNT	12/624956	2010/0091992	8355503	Granted
21472	21472-US-CNT[2]	13/723660	2013/0114814	8903085	Granted
21472	21472-US-CNT[3]	14/224660	2014/0205098	9258701	Granted
21472	21472-US-PAT	11/123222	2006/0251249	7643633	Granted
21481	21481-US-CNT	12/574749	2010/0029252	7831241	Granted
21481	21481-US-CNT[2]	12/917562	2011/0047250	8675845	Granted
21481	21481-US-CNT[3]	14/194908	2014/0181132		Abandoned
21481	21481-US-PAT	11/286330	2006/0135135	7620387	Granted
21481	21481-US-PRV	60/637766			Converted
21483	21483-US-PAT	11/237724	2007/0074031		Abandoned
21485	21485-US-PAT	11/284904	2007/0118571	7747566	Granted
21485-1	21485-1-US-PAT	11/284923	2007/0118709	7334085	Granted
21488	21488-US-CNT	12/362639	2009/0138962	7920486	Granted
21488	21488-US-CNT[2]	13/026824	2011/0138065	8248967	Granted
21488	21488-US-PAT	11/180487	2006/0221897	7505421	Granted
21488	21488-US-PRV	60/666211			Converted
21489	21489-US-PAT	11/150168	2006/0281448	7684791	Granted
21491	21491-US-CNT	12/116455	2008/0211696	8963744	Granted
21491	21491-US-PAT	11/129404	2006/0261983	7385530	Granted
21498	21498-US-CNT	12/117186	2008/0202805	7807933	Granted
21498	21498-US-PAT	11/249409	2006/0289190	7388160	Granted
21498	21498-US-PRV	60/693092			Converted
21499	21499-US-CNT	13/047249	2012/0239754	8595304	Granted
21499	21499-US-PAT	11/313426	2007/0143421	7930354	Granted
21500	21500-US-PAT	11/171477	2007/0006279		Abandoned
21501	21501-US-CNT	12/358701	2009/0129280		Abandoned
21501	21501-US-PAT	11/044189	2006/0171306	7508812	Granted
21504	21504-US-PAT	11/211280	2007/0049323		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
21505	21505-US-PAT	11/229604	2007/0064963	7561711	Granted
21507	21507-US-PAT	11/405508	2007/0037521	8001529	Granted
21507	21507-US-PRV	60/672041			Converted
21510	21510-US-CNT	13/207235	2011/0295642		Abandoned
21510	21510-US-PAT	11/133446	2007/0008911	8019065	Granted
21514	21514-US-CNT	13/615046	2013/0007446	8719565	Granted
21514	21514-US-PAT	11/417108	2007/0260874	8291215	Granted
21514-1	21514-1-US-CNT	13/614755	2013/0013919	8850188	Granted
21514-1	21514-1-US-DIV	11/455180	2007/0260877	8291216	Granted
21519	21519-US-CNT	12/139859	2008/0248839	7877708	Granted
21519	21519-US-CNT[2]	12/969722	2011/0087993	9542073	Granted
21519	21519-US-CNT[3]	15/384573	2017/0102851	10514838	Granted
21519	21519-US-PAT	11/143473	2006/0277504	7404152	Granted
21526	21526-US-PAT	11/313942	2006/0234731	8775791	Granted
21526	21526-US-PRV	60/672040			Converted
21529	21529-US-CNT	12/768160	2011/0261958	8619985	Granted
21529	21529-US-PAT	11/368504	2007/0211890	7720225	Granted
21532	21532-US-CNT	13/428488	2012/0178499	8750924	Granted
21532	21532-US-PAT	11/246759	2007/0082697		Abandoned
21533	21533-US-CNT	13/235547	2012/0009893	8270936	Granted
21533	21533-US-CNT[2]	13/572750	2012/0309342		Abandoned
21533	21533-US-PAT	11/048766	2006/0172720	8045953	Granted
21539	21539-US-CNT	12/979106	2011/0092190	8391448	Granted
21539	21539-US-PAT	11/259751	2007/0173233	7894580	Granted
21540	21540-US-CNT	12/727282	2010/0191816	8131264	Granted
21540	21540-US-PAT	11/296327	2007/0135095	7715826	Granted
21541	21541-US-PAT	11/227607	2007/0067394		Abandoned
21545	21545-US-PAT	11/457303	2007/0073871	10013674	Granted
21545	21545-US-PRV	60/720054			Converted
21547	21547-US-PAT	11/365000	2007/0216880	7505766	Abandoned
21548	21548-US-PAT	11/365537	2007/0207757	7555295	Abandoned
21554	21554-US-PAT	11/086373	2006/0217126	8620988	Granted
21556	21556-US-CNT	12/949847	2011/0078265	8542606	Granted
21556	21556-US-CNT[2]	13/773025	2013/0167043		Abandoned
21556	21556-US-PAT	11/216119	2007/0050455	7853656	Granted
21558	21558-US-PAT	11/417107	2007/0258584	8542824	Granted
21565	21565-US-CNT	12/045099	2008/0153542	8190192	Granted
21565	21565-US-CNT[2]	13/458652	2012/0214558	9037188	Granted
21565	21565-US-PAT	11/242047	2007/0077964	7346368	Granted
21567	21567-US-CNT	12/350534	2009/0117889	8032128	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
21567	21567-US-PAT	11/198687	2007/0032228	7489923	Granted
21568	21568-US-CNT	12/852889	2010/0328220	8022932	Granted
21568	21568-US-CNT[2]	13/212568	2011/0304553	8248370	Granted
21568	21568-US-CNT[3]	13/552211	2012/0284019	8319731	Granted
21568	21568-US-CNT[4]	13/620630	2013/0013296	8542190	Granted
21568	21568-US-PAT	11/116895	2006/0244729	7796121	Granted
21572	21572-US-PAT	11/405600	2006/0265448	7925252	Granted
21572	21572-US-PRV	60/672088			Converted
21574	21574-US-PAT	11/405595	2006/0259606	7877091	Granted
21574	21574-US-PRV	60/672091			Converted
21575	21575-US-CNT	13/419928	2012/0173652	8391307	Granted
21575	21575-US-PAT	11/405594	2006/0233187	8155133	Granted
21575	21575-US-PRV	60/672082			Converted
21576	21576-US-CNT	12/813831	2010/0257261	8117297	Granted
21576	21576-US-PAT	11/405533	2006/0253556	7747724	Granted
21576	21576-US-PRV	60/672042			Converted
21577	21577-US-CNT	12/692675	2010/0179942	8554887	Granted
21577	21577-US-PAT	11/360573	2006/0234623	7680910	Reissued (Inactive Parent)
21577	21577-US-PRV	60/672089			Converted
21577	21577-US-REI	13/973033		RE44836	Granted
21579	21579-US-CNT	12/542024	2009/0296678	7953102	Granted
21579	21579-US-PAT	11/107913	2006/0251029	7586926	Granted
21580	21580-US-CNT	12/605398	2010/0050167		Abandoned
21580	21580-US-PAT	11/107887	2006/0236313	7624370	Granted
21581	21581-US-PAT	11/107912	2006/0235978		Abandoned
21582	21582-US-PAT	11/074660	2006/0205420	8433822	Granted
21584	21584-US-CNT	12/792420	2010/0242033	8464240	Granted
21584	21584-US-PAT	11/402112	2006/0236083	7747995	Granted
21584	21584-US-PRV	60/672096			Converted
21587	21587-US-PAT	11/405592	2006/0282516		Abandoned
21587	21587-US-PRV	60/672036			Converted
21588	21588-US-PAT	11/405593	2006/0259578		Abandoned
21588	21588-US-PRV	60/672044			Converted
21589	21589-US-CNT	12/626784	2010/0075707	8014770	Granted
21589	21589-US-PAT	11/107884	2006/0234743	7643825	Granted
21590	21590-US-PAT	11/107726	2006/0235955		Abandoned
21592	21592-US-PAT	11/107725	2006/0236390		Abandoned
21593	21593-US-PAT	11/402848	2007/0011292	8060554	Granted
21593	21593-US-PRV	60/672034			Converted

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21594	21594-US-PAT	11/405591	2006/0271662		Abandoned
21594	21594-US-PRV	60/672035			Converted
21603	21603-US-CNT	12/819867	2011/0151848	8185911	Granted
21603	21603-US-PAT	11/107743	2006/0234689	7743385	Granted
21604	21604-US-CNT	12/725028	2010/0175059	8555272	Granted
21604	21604-US-PAT	11/218432	2006/0236317	7698702	Granted
21604	21604-US-PRV	60/672094			Converted
21605	21605-US-PAT	11/379158	2006/0253571	8074208	Granted
21605	21605-US-PRV	60/672008			Converted
21606	21606-US-PAT	11/379157	2007/0006223		Abandoned
21606	21606-US-PRV	60/672087			Converted
21607	21607-US-PAT	11/405509	2007/0002689	7720953	Granted
21607	21607-US-PRV	60/672043			Converted
21608	21608-US-PAT	11/106663	2006/0236302	8006224	Granted
21611	21611-US-PAT	11/107917	2006/0251125	7983209	Granted
21613	21613-US-CNT	12/796877	2010/0269098		Abandoned
21613	21613-US-PAT	11/107892	2006/0236306	7747983	Granted
21614	21614-US-PAT	11/106575	2006/0248121		Abandoned
21615	21615-US-CNT	11/766917	2007/0241948	7375658	Granted
21615	21615-US-CNT2	11/961170	2008/0122663	7561079	Granted
21615	21615-US-PAT	11/064823	2006/0212772	7245238	Granted
21618	21618-US-PAT	11/108169	2006/0236254		Abandoned
21619	21619-US-CNT	12/787848	2010/0235399	7941452	Granted
21619	21619-US-PAT	11/106574	2006/0248108	7730103	Granted
21629	21629-US-PAT	11/350098	2006/0251047	7805735	Granted
21629	21629-US-PRV	60/672077			Converted
21631	21631-US-PAT	11/405582	2006/0256786		Abandoned
21631	21631-US-PRV	60/672007			Converted
21632	21632-US-PAT	11/157975	2006/0248069		Abandoned
21632	21632-US-PRV	60/672086			Converted
21633	21633-US-PAT	11/405639	2006/0248406	7937624	Granted
21633	21633-US-PRV	60/672083			Converted
21634	21634-US-PAT	11/108058	2006/0236314	8112746	Granted
21635	21635-US-PAT	11/107911	2006/0248145		Abandoned
21636	21636-US-PAT	11/107895	2006/0234548	8438577	Granted
21637	21637-US-PAT	11/405576	2006/0262749	7933880	Granted
21637	21637-US-PRV	60/672020			Converted
21638	21638-US-CNT	12/783802	2010/0235600	8340652	Granted
21638	21638-US-PAT	11/405598	2007/0005684	7738866	Granted
21638	21638-US-PRV	60/672055			Converted

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21641	21641-US-PAT	11/153005	2006/0284840		Abandoned
21643	21643-US-PAT	11/128705	2006/0259554	8843564	Granted
21644	21644-US-CNT	12/699105	2010/0134413		Abandoned
21644	21644-US-PAT	11/469924	2008/0055254	7683886	Granted
21648	21648-US-CNT	12/574234	2010/0023317	9851983	Granted
21648	21648-US-PAT	11/119387	2006/0247916	7620540	Granted
21651	21651-US-DIV	12/689633	2010/0119922	7910244	Granted
21651	21651-US-DIV[2]	13/024716	2011/0129724	8142925	Granted
21651	21651-US-DIV[3]	13/399019	2012/0148894	8361648	Granted
21651	21651-US-PAT	11/245020	2007/0082234	7687197	Granted
21652	21652-US-CNT	12/909406	2011/0134898	8107924	Granted
21652	21652-US-CNT[2]	13/337238	2012/0096518	8693986	Granted
21652	21652-US-PAT	11/482864	2008/0008143	7831236	Granted
21653	21653-US-CNT	12/832835	2010/0271311	8102368	Granted
21653	21653-US-CNT[2]	13/328027	2012/0086646	8547329	Granted
21653	21653-US-CNT[3]	13/971592	2014/0055365	8890806	Granted
21653	21653-US-PAT	11/398379	2007/0240044	7777717	Granted
21654	21654-US-CNT	13/078692	2011/0182276	8280457	Granted
21654	21654-US-CNT[2]	13/611569	2013/0003632	8543174	Granted
21654	21654-US-PAT	11/413880	2007/0254619	7953457	Granted
21656	21656-US-CIP	11/080365	2006/0183475		Abandoned
21656	21656-US-CNT	13/017918	2011/0122847	8767618	Granted
21656	21656-US-PAT	11/057032	2006/0182054	7911996	Granted
21657	21657-US-PAT	11/460382	2008/0039021		Abandoned
21657-1	21657-1-US-CNT	13/729511	2013/0115926	8588826	Granted
21657-1	21657-1-US-PAT	11/460388	2008/0037744	8369843	Granted
21663	21663-US-PAT	11/183526	2007/0016775		Abandoned
21664	21664-US-CNT	11/854036	2007/0298797	7917143	Granted
21664	21664-US-CNT[2]	13/032053	2011/0141977	8131292	Granted
21664	21664-US-PAT	11/113154	2006/0240823	7283819	Granted
30004	30004-US-CNT	12/788709	2010/0235893	8402523	Granted
30004	30004-US-CNT[2]	13/766068	2013/0160091	8914860	Granted
30004	30004-US-PAT	11/280235	2006/0294368	7735123	Granted
30004	30004-US-PRV	60/693413			Converted
30005	30005-US-CNT	12/795383	2010/0241867	8332935	Granted
30005	30005-US-CNT[2]	13/614436	2013/0019102	9003516	Granted
30005	30005-US-PAT	11/196340	2007/0028118	7735132	Granted
30007	30007-US-PAT	11/555030	2008/0120504	8838975	Granted
30008	30008-US-CNT	12/025837	2008/0132271	7974582	Granted
30008	30008-US-CNT[2]	13/073293	2011/0172002	8099142	Granted

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30008	30008-US-CNT[3]	13/347343	2012/0106757	8249671	Granted
30008	30008-US-CNT[4]	13/545187	2012/0275623	8385990	Granted
30008	30008-US-CNT[5]	13/742548	2013/0130755	8565842	Granted
30008	30008-US-PAT	11/098275	2006/0223570	7353041	Granted
30009	30009-US-PAT	11/113852	2006/0239480		Abandoned
30010	30010-US-CNT	12/336598	2009/0098917	8359076	Granted
30010	30010-US-CNT[2]	13/732677	2013/0130754	8594750	Granted
30010	30010-US-PAT	11/098274	2006/0223597	7483727	Granted
30012	30012-US-CIP	11/061464	2006/0047665		Abandoned
30012	30012-US-CIP[2]	12/480266	2009/0300063	7865528	Expired
30012	30012-US-CNT	12/347193	2009/0177663	7941450	Granted
30012	30012-US-CNT[2]	12/973232	2011/0087710	8204911	Expired
30012	30012-US-PAT	09/846781	2002/0107580	7546298	Granted
30012	30012-US-PRV	60/260223			Converted
30014	30014-US-CNT	13/229682	2011/0321171	8442232	Granted
30014	30014-US-CNT[2]	13/875395	2013/0239225	9069974	Granted
30014	30014-US-PAT	11/097147	2006/0236126	8024809	Granted
30017	30017-US-CIP	11/127408	2006/0203763	7400602	Granted
30017	30017-US-CNT	12/575372	2010/0020759	7924797	Granted
30017	30017-US-PAT	11/075956	2006/0209741	7620024	Granted
30019	30019-US-CNT	12/784951	2011/0131511	8307294	Granted
30019	30019-US-PAT	11/250427	2006/0236304	7747958	Granted
30019	30019-US-PRV	60/672093			Converted
30020	30020-US-CNT	12/565815	2010/0042972	8191039	Granted
30020	30020-US-PAT	11/405495	2006/0253834	7613789	Granted
30020	30020-US-PRV	60/672078			Converted
30022	30022-US-PAT	11/107915	2006/0235882		Abandoned
30023	30023-US-CNT	12/822248	2010/0262951	7912984	Granted
30023	30023-US-PAT	11/221820	2006/0234763	7769897	Granted
30023	30023-US-PRV	60/672013			Converted
30024	30024-US-CNT	12/649528	2010/0106775	8190712	Granted
30024	30024-US-PCT	10/537430	2006/0190526	7668937	Granted
30025	30025-US-CNT	13/533611	2012/0265821	8533323	Granted
30025	30025-US-PCT	10/537705	2006/0190527	8224951	Granted
30026	30026-US-PCT	10/537621	2006/0190569		Abandoned
30027	30027-US-PCT	10/537428	2006/0190813	7533114	Granted
30028	30028-US-CIP	11/061890	2006/0036941		Abandoned
30028	30028-US-CNT	12/425642	2009/0300578		Abandoned
30029	30029-US-CNT	13/562531	2012/0287847		Abandoned
30029	30029-US-PAT	11/634571	2008/0139199	8301179	Granted

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30030	30030-US-PAT	11/414404	2007/0254612	7865156	Granted
30032	30032-US-PAT	11/280173	2007/0112882	7613739	Abandoned
30034	30034-US-CNT	13/093039	2011/0209055	8539350	Granted
30034	30034-US-CNT[2]	13/965476	2014/0012566		Abandoned
30034	30034-US-PAT	11/251147	2007/0085835	7962857	Granted
30035	30035-US-CNT	12/142510	2008/0246635	8068041	Abandoned
30035	30035-US-DES	29/231438		D580940	Abandoned Decision
30035	30035-US-PAT	11/145370	2006/0276219	7433719	Abandoned
30036	30036-US-CNT	12/725764	2010/0172527	8265312	Granted
30036	30036-US-CNT[2]	13/572985	2012/0308061	8644539	Granted
30036	30036-US-PAT	11/289902	2007/0121979	7715578	Granted
30038	30038-US-CNT	12/388137	2009/0156127	7986979	Granted
30038	30038-US-CNT[2]	13/186920	2011/0275419	8285343	Granted
30038	30038-US-CNT[3]	13/604507	2012/0329530	8548533	Granted
30038	30038-US-PAT	11/289904	2007/0123323	7515944	Granted
30040	30040-US-CNT	12/506376	2009/0281979	7991929	Granted
30040	30040-US-CNT[2]	13/167442	2011/0260892	8296485	Granted
30040	30040-US-CNT[3]	13/616949	2013/0013826	8775702	Granted
30040	30040-US-PAT	11/285087	2007/0130380	7594050	Granted
30041	30041-US-PAT	11/223765	2007/0060191	7826864	Granted
30047	30047-US-PAT	11/336797	2008/0126079		Abandoned
30051	30051-US-CNT	13/094266	2011/0199311	8711098	Granted
30051	30051-US-PAT	11/098783	2006/0221057	7956843	Granted
30052	30052-US-CNT	13/540817	2012/0299833	8564539	Granted
30052	30052-US-PAT	11/098784	2006/0221058	8237658	Granted
30053	30053-US-PAT	11/098596	2006/0221060	7403188	Granted
30054	30054-US-CNT	12/718070	2010/0159901	9247038	Granted
30054	30054-US-CNT[2]	14/970811	2016/0105548	9497318	Granted
30054	30054-US-PAT	11/235509	2007/0081641	7715535	Granted
30056	30056-US-CNT	13/235839	2012/0008785	8458806	Granted
30056	30056-US-PAT	11/334436	2007/0165863	8024811	Granted
30058	30058-US-CIP	11/677938	2007/0194132	7871012	Granted
30058	30058-US-CNT	12/409221	2009/0179077	7866567	Granted
30058	30058-US-PAT	11/358096	2007/0194131	7506821	Granted
30059	30059-US-CNT	12/968925	2011/0080858	8542675	Granted
30059	30059-US-PAT	11/179534	2007/0014280	7881283	Granted
30061	30061-US-PAT	11/300617	2007/0132738	7800596	Granted
30062	30062-US-CNT	12/985065	2011/0106988	8135892	Granted
30062	30062-US-PAT	11/341661	2007/0180174	7882288	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30064	30064-US-CNT	13/742696	2013/0130664	8755301	Granted
30064	30064-US-PAT	11/195618	2007/0060103	8363558	Granted
30066	30066-US-CNT	12/326212	2009/0080643	7869841	Granted
30066	30066-US-CNT[2]	12/974408	2011/0092258	8086286	Granted
30066	30066-US-CNT[3]	13/303342	2012/0069988	8417299	Granted
30066	30066-US-PAT	11/343091	2007/0178868	7480523	Granted
30067	30067-US-CNT	12/909975	2011/0035550	8069319	Granted
30067	30067-US-CNT[2]	13/267151	2012/0030300		Abandoned
30067	30067-US-PAT	11/382151	2007/0260822	7831786	Granted
30069	30069-US-CNT	12/497576	2009/0266883	7792290	Granted
30069	30069-US-PAT	11/106633	2006/0233374	7558387	Granted
30071	30071-US-CNT	13/616789	2013/0016833		Abandoned
30071	30071-US-CNT[2]	14/093253	2014/0237246	9071426	Granted
30071	30071-US-PAT	11/097282	2006/0225126	8316416	Granted
30072	30072-US-CNT	12/352315	2009/0111504	9503992	Granted
30072	30072-US-PAT	11/097145	2006/0223566	7477913	Granted
30074	30074-US-CNT	12/058684	2008/0289001	8261338	Granted
30074	30074-US-CNT[2]	13/570709	2012/0303786	9531828	Granted
30074	30074-US-CNT[3]	15/375343	2017/0094001	9762691	Granted
30074	30074-US-PAT	11/097356	2006/0224601	7356539	Granted
30075	30075-US-CNT	12/361868	2009/0138526	8019722	Granted
30075	30075-US-CNT[2]	13/206858	2011/0295799	8356008	Granted
30075	30075-US-PAT	11/444388	2007/0282919	7509350	Granted
30076	30076-US-PAT	11/194687	2007/0032270		Abandoned
30080	30080-US-PAT	11/097144	2006/0224892	9143323	Granted
30083	30083-US-DIV	13/026212	2011/0134846		Abandoned
30083	30083-US-PAT	11/087610	2006/0215622	7912465	Granted
30084	30084-US-CNT	12/471954	2009/0232040	8406169	Granted
30084	30084-US-PAT	11/147291	2006/0280128	7561545	Granted
30085	30085-US-PAT	11/087609	2006/0215621		Abandoned
30090	30090-US-CNT	12/871729	2010/0332976	8392831	Granted
30090	30090-US-CNT[2]	13/753240	2013/0145261	9128922	Granted
30090	30090-US-PAT	11/398222	2007/0240043	7797629	Granted
30091	30091-US-CNT	13/175177	2011/0258539	9058320	Granted
30091	30091-US-PAT	11/398397	2007/0240045	7996769	Granted
30092	30092-US-CNT	12/507279	2009/0287475	8102284	Granted
30092	30092-US-CNT[2]	13/327890	2012/0081296		Abandoned
30092	30092-US-CNT[3]	14/678920			Abandoned
30092	30092-US-PAT	11/191754	2007/0024589	7583205	Granted
30092-1	30092-1-US-CNT	12/493297	2009/0265619		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30092-1	30092-1-US-PAT	11/191743	2007/0024602	7573404	Granted
30093	30093-US-CNT	12/464552	2009/0221309	8554544	Granted
30093	30093-US-CNT[2]	13/961959	2013/0325445		Abandoned
30093	30093-US-PAT	11/119455	2006/0247917	7548849	Granted
30093-1	30093-1-US-CNT	13/798333	2013/0191112		Abandoned
30093-1	30093-1-US-PAT	11/469507	2008/0065369	8423908	Granted
30098	30098-US-CNT	12/790922	2010/0237148	8136731	Granted
30098	30098-US-CNT[2]	13/371457	2012/0139713	8328093	Granted
30098	30098-US-CNT[3]	13/612702	2013/0001301	8550342	Granted
30098	30098-US-CNT[4]	14/041319	2014/0027508	8833651	Granted
30098	30098-US-PAT	11/106467	2006/0231623	7726566	Granted
30099	30099-US-PAT	11/302928	2007/0132716	7907129	Granted
30100	30100-US-CNT	12/333551	2009/0098916	7792554	Granted
30100	30100-US-CNT[2]	12/788984	2010/0232332	7983719	Granted
30100	30100-US-PAT	11/227876	2007/0060211	7480521	Granted
30101	30101-US-CNT	13/402942	2012/0151414	8856683	Granted
30101	30101-US-CNT[2]	14/476302	2014/0372950	9798444	Granted
30101	30101-US-PCT	11/530230	2007/0006099	8151212	Granted
30101	30101-US-PRV	60/551830			Converted
30102	30102-US-CNT	12/406396	2009/0183119	7689930	Granted
30102	30102-US-CNT[2]	12/705048	2010/0211916	7895510	Granted
30102	30102-US-PAT	11/127720	2005/0268253	7523416	Granted
30102	30102-US-PRV	60/570066			Converted
30105	30105-US-CNT	12/977296	2011/0116583	8180301	Granted
30105	30105-US-PAT	11/396528	2006/0222090	7865148	Granted
30105	30105-US-PRV	60/667681			Converted
30106	30106-US-CNT	13/448578	2012/0201144	8730972	Granted
30106	30106-US-PAT	11/732565	2008/0247326	8184637	Granted
30107	30107-US-PAT	11/154953	2006/0288207		Abandoned
30108	30108-US-PAT	11/423295	2007/0288636	8032609	Granted
30109	30109-US-PAT	11/584418	2008/0096589	8064934	Granted
30112	30112-US-CNT	12/904310	2011/0029605	8171172	Granted
30112	30112-US-PAT	11/216796	2007/0050502	7840710	Granted
30115	30115-US-PAT	11/258022	2007/0093237		Abandoned
30118	30118-US-CNT	12/574194	2010/0029214	7925315	Granted
30118	30118-US-CNT[2]	13/073603	2011/0170708	8391933	Granted
30118	30118-US-CNT[3]	13/760577	2013/0150129	8594751	Granted
30118	30118-US-PAT	11/343090	2007/0184805	7616973	Granted
30120	30120-US-PAT	11/175367	2007/0008118	7327255	Granted
30122	30122-US-CNT	12/358054	2009/0160714	7982677	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30122	30122-US-CNT[2]	13/184635	20110273343	8274437	Granted
30122	30122-US-PAT	11/167506	2006/0293078	7489276	Granted
30126-1	30126-1-US-CNT	13/279903	2012/0040666		Abandoned
30126-1	30126-1-US-PAT	11/116461	2006/0245392	8060084	Granted
30129	30129-US-CNT	12/030475	2008/0136435	7755378	Granted
30129	30129-US-PAT	11/206198	2007/0057681	7355427	Granted
30130	30130-US-CNT	12/830783	2010/0272079	8649391	Granted
30130	30130-US-PAT	11/245116	2007/0081547	7778269	Granted
30131	30131-US-CNT	12/786746	2010/0232556	7839959	Granted
30131	30131-US-CNT[2]	12/947943	2011/0065407	8233574	Granted
30131	30131-US-PAT	11/420254	2006/0268923	7733996	Granted
30131	30131-US-PRV	60/684312			Converted
30131	30131-US-PRV1	60/708236			Converted
30131-1	30131-1-US-PAT	11/420258	2007/0036122		Abandoned
30131-1	30131-1-US-PRV	60/708238			Converted
30131-2	30131-2-US-PAT	11/420266	2006/0268972	7844232	Abandoned
30131-2	30131-2-US-PRV	60/708278			Converted
30131-3	30131-3-US-PAT	11/420271	2007/0036210		Abandoned
30131-3	30131-3-US-PRV	60/708276			Converted
30131-6	30131-6-US-PAT	11/464274	2007/0037540		Abandoned
30131-6	30131-6-US-PRV	60/708310			Converted
30131-7	30131-7-US-PAT	11/464310	2007/0049233		Abandoned
30131-7	30131-7-US-PRV	60/708332			Converted
30131-8	30131-8-US-PAT	11/464292	2007/0049232		Abandoned
30131-8	30131-8-US-PRV	60/708237			Converted
30131-9	30131-9-US-PAT	11/464329	2007/0042741		Abandoned
30131-9	30131-9-US-PRV	60/708326			Converted
30132	30132-US-PAT	11/352318	2007/0240133	7913234	Granted
30133	30133-US-PAT	11/352243	2007/0192682	7890853	Granted
30134	30134-US-PAT	11/425875	2007/0300237		Abandoned
30135	30135-US-CNT	12/622908	2010/0069104	7764970	Granted
30135	30135-US-CNT[2]	12/843328	2011/0021218	8185141	Granted
30135	30135-US-PAT	11/460744	2008/0026776	7623877	Granted
30136	30136-US-PAT	11/465579	2008/0045248	7899474	Granted
30137	30137-US-PAT	11/449586	2007/0288471		Abandoned
30139	30139-US-CNT	12/817398	2010/0257600		Abandoned
30139	30139-US-PAT	11/457841	2008/0016187	7779085	Granted
30140	30140-US-PAT	11/457834	2008/0098037		Abandoned
30141	30141-US-PAT	11/459037	2008/0075062	7920852	Granted
30142	30142-US-CNT	12/776646	2010/0217747	7904421	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30142	30142-US-PAT	11/405492	2007/0244926	7734583	Granted
30143	30143-US-CNT	12/891179	2011/0111742		Abandoned
30143	30143-US-PAT	11/459054	2008/0020737	7805133	Granted
30144	30144-US-PAT	11/345326	2007/0180360	8046679	Granted
30145	30145-US-PAT	11/449587	2007/0288424	7779029	Granted
30148	30148-US-PAT	12/038051	2009/0216800	7904468	Granted
30149	30149-US-PAT	11/235387	2007/0078925		Abandoned
30150	30150-US-PAT	11/462428	2008/0034063		Abandoned
30151	30151-US-CNT	11/738689	2007/0200972	7500775	Granted
30151	30151-US-PAT	11/258112	2007/0091635	7213955	Granted
30152	30152-US-CNT	12/942277	2011/0053663	8116716	Granted
30152	30152-US-CNT[2]	13/357321	2012/0122516	8380156	Granted
30152	30152-US-PAT	11/289901	2007/0123298	7885630	Granted
30153	30153-US-CNT	13/047915	2011/0196756		Abandoned
30153	30153-US-PAT	11/533803	2008/0076400	7912480	Granted
30157	30157-US-PAT	11/154596	2006/0288107	9514441	Granted
30159	30159-US-PAT	11/535085	2007/0072564	8650652	Granted
30159	30159-US-PRV	60/720053			Converted
30167	30167-US-CNT	13/420806	2012/0179686	8788478	Granted
30167	30167-US-CNT[2]	14/329122	2015/0186475	9367593	Granted
30167	30167-US-CNT[3]	15/177111	2016/0292239	10331690	Granted
30167	30167-US-CNT[4]	16/447587	2019/0303366		Publication of Application
30167	30167-US-PAT	11/433453	2007/0266005	8161031	Granted
30168	30168-US-CNT	15/154816	2016/0252365		Abandoned
30168	30168-US-PAT	11/332250	2007/0168123	9366545	Granted
30169	30169-US-CNT	13/113622	2011/0223935	8185103	Granted
30169	30169-US-CNT[2]	13/452219	2012/0208515	8849299	Granted
30169	30169-US-PAT	11/366705	2007/0207815	7953410	Granted
30176	30176-US-PAT	11/481855	2007/0233817	8788613	Granted
30176	30176-US-PRV	60/787541			Converted
30178	30178-US-DIV	12/869076	2010/0320256	7874470	Granted
30178	30178-US-PAT	11/400233	2007/0235504	8528804	Granted
30180	30180-US-PAT	11/390087	2007/0229536	8437805	Granted
30186	30186-US-CNT	12/559119	2010/0005148	8135788	Granted
30186	30186-US-PAT	11/165210	2006/0294190	7613781	Granted
30186-1	30186-1-US-PAT	11/165309	2006/0293032	7363026	Granted
30186-2	30186-2-US-PAT	11/165017	2006/0293031	8655319	Granted
30187	30187-US-PAT	11/383250	2007/0088791		Abandoned
30187	30187-US-PRV	60/721920			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30188	30188-US-PAT	11/383272	2007/0073720	8799368	Granted
30188	30188-US-PRV	60/721795			Converted
30189	30189-US-PAT	11/239488	2007/0073884	8468204	Granted
30190	30190-US-PAT	11/236349	2007/0073815		Abandoned
30190-1	30190-1-US-PAT	11/235768	2007/0073813	8307036	Granted
30191	30191-US-CNT	13/611345	2013/0007164		Abandoned
30191	30191-US-PAT	11/235769	2007/0073814	8296369	Granted
30192	30192-US-CNT	13/296964	2012/0059895	8626857	Granted
30192	30192-US-PAT	11/238753	2007/0073818	8078681	Granted
30193	30193-US-CNT	13/351568	2012/0117631		Abandoned
30193	30193-US-PAT	11/238754	2007/0073819	8117267	Granted
30194	30194-US-PAT	11/382302	2007/0083599		Abandoned
30194	30194-US-PRV	60/720820			Converted
30195	30195-US-PAT	11/382312	2007/0094347		Abandoned
30195	30195-US-PRV	60/720899			Converted
30196	30196-US-PAT	11/238321	2007/0072588		Abandoned
30197	30197-US-PAT	11/237096	2007/0073817	8756317	Granted
30198	30198-US-CIP	11/560604	2007/0142034	8494492	Granted
30198	30198-US-PAT	11/237077	2007/0072589	8494491	Granted
30199	30199-US-PAT	11/240548	2007/0078934		Abandoned
30203	30203-US-PAT	11/962785	2009/0163201	8521155	Granted
30204	30204-US-CNT	12/875405	2010/0332620	7986943	Granted
30204	30204-US-CNT[2]	13/162703	2011/0246592	8204483	Granted
30204	30204-US-CNT[3]	13/466768	2012/0233275	8315605	Granted
30204	30204-US-CNT[4]	13/620317	2013/0013721	8401525	Granted
30204	30204-US-PAT	11/459242	2008/0020735	7809356	Granted
30205	30205-US-PAT	12/014205	2009/0179863		Abandoned
30207	30207-US-PAT	11/465619	2008/0127233	7779429	Granted
30211	30211-US-CNT	12/634872	2010/0090957		Abandoned
30211	30211-US-PAT	11/281490	2007/0114368	7655901	Granted
30214	30214-US-PAT	11/174079	2007/0004402		Abandoned
30215	30215-US-CNT	13/859890	2013/0225164	9155033	Granted
30215	30215-US-CNT[2]	14/806444	2015/0334646		Abandoned
30215	30215-US-PAT	11/173083	2007/0004405	8428584	Granted
30215-1	30215-1-US-PAT	11/173040	2007/0004404		Abandoned
30216	30216-US-CNT	12/837221	2010/0279690		Abandoned
30216	30216-US-PAT	11/173031	2007/0004408	7826842	Granted
30217	30217-US-PAT	11/380016	2007/0249364		Abandoned
30219	30219-US-DIV	11/456391	2007/0021010	7367843	Abandoned
30219	30219-US-PAT	11/186544		7097511	Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30220	30220-US-CNT	12/557201	2010/0029242	8041328	Granted
30220	30220-US-CNT[2]	12/557973	2010/0009650	8787865	Granted
30220	30220-US-CNT[3]	12/558731	2010/0003944	8244200	Granted
30220	30220-US-PAT	11/270669	2007/0102525	7606552	Granted
30224	30224-US-CNT	12/692981	2010/0121931	8090786	Granted
30224	30224-US-CNT[2]	13/324211	2012/0084376	8478830	Granted
30224	30224-US-PAT	11/192115	2007/0038719	7653696	Granted
30225	30225-US-CNT	12/758254	2010/0197292	8010098	Granted
30225	30225-US-CNT[2]	13/206847	2011/0294471	8577357	Granted
30225	30225-US-PAT	11/192264	2007/0036300	7697926	Granted
30226	30226-US-CNT	12/834326	2010/0281128	8037149	Granted
30226	30226-US-CNT[2]	13/229865	2012/0005293	8244820	Granted
30226	30226-US-CNT[3]	13/568222	2012/0303731	8516068	Granted
30226	30226-US-PAT	11/192116	2007/0038704	7756932	Granted
30227	30227-US-CNT	12/644889	2010/0100932	8099759	Granted
30227	30227-US-CNT[2]	13/324180	2012/0137341	8370896	Granted
30227	30227-US-CNT[3]	13/729123	2013/0167194	8689286	Granted
30227	30227-US-PAT	11/261701	2006/0277592	7640575	Granted
30227	30227-US-PRV	60/686050			Converted
30228	30228-US-CNT	13/709677	2013/0102336		Abandoned
30228	30228-US-PAT	11/552802	2008/0099563	8346266	Abandoned
30231	30231-US-CNT	12/537562	2010/0020904	8295410	Granted
30231	30231-US-CNT[2]	13/613632	2013/0013984		Abandoned
30231	30231-US-PAT	11/390155	2007/0230630	7587005	Granted
30236	30236-US-CNT	12/858603	2010/0313022	7890760	Granted
30236	30236-US-CNT[2]	13/026912	2011/0138180	8086858	Granted
30236	30236-US-PAT	11/352323	2007/0208942	7802097	Granted
30238	30238-US-CNT	13/097557	2011/0202680	8494448	Granted
30238	30238-US-CNT[2]	13/928873	2013/0290562	9232457	Granted
30238	30238-US-PAT	11/459039	2008/0125067	7949301	Granted
30240	30240-US-CNT	13/296839	2012/0055827	8675905	Abandoned
30240	30240-US-PAT	11/194080	2007/0025582	8090136	Abandoned
30246	30246-US-CNT	12/690245	2010/0138809	8375354	Granted
30246	30246-US-PAT	11/345332	2007/0198968	7676786	Granted
30248	30248-US-CNT	12/907301	2011/0035742	8321852	Granted
30248	30248-US-PAT	11/346286	2007/0201654	7836439	Granted
30249	30249-US-CNT	12/958128	2011/0072044	8122130	Granted
30249	30249-US-PAT	11/538083	2008/0082646	7870255	Granted
30252	30252-US-CNT	12/638093	2010/0094552	8063836	Granted
30252	30252-US-CNT[2]	13/300823	2012/0064943	8988291	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30252	30252-US-PAT	11/288896	2007/0120745	7656353	Granted
30254	30254-US-CNT	12/235562	2009/0036101	8107941	Granted
30254	30254-US-CNT[2]	13/336129	2012/0096102		Abandoned
30254	30254-US-PAT	11/176263	2007/0010232	7444135	Granted
30255	30255-US-CNT	14/045039	2014/0032692	9264386	Granted
30255	30255-US-DIV	13/238839	2012/0011213	9219703	Granted
30255	30255-US-PAT	11/459047	2008/0037722	8572182	Granted
30256	30256-US-CNT	14/254248	2014/0229892	9785318	Granted
30256	30256-US-PAT	11/374067	2007/0220445	8745526	Granted
30260	30260-US-PAT	11/297487	2007/0132259		Abandoned
30266	30266-US-CNT	13/417421	2012/0176905		Abandoned
30266	30266-US-PAT	11/530093	2008/0062881	8150933	Granted
30267	30267-US-PAT	11/459053	2008/0018927	8479288	Granted
30269	30269-US-PAT	11/614278	2007/0146344		Abandoned
30269	30269-US-PRV	60/752406			Converted
30273	30273-US-PAT	11/266681	2007/0104108	8213317	Granted
30273	30273-US-PAT2	11/555722	2007/0105546	8072880	Granted
30276	30276-US-PAT	11/234267	2007/0073703	8412750	Granted
30278	30278-US-CNT	12/954727	2011/0069062		Abandoned
30278	30278-US-CNT[2]	13/244884	2012/0015673		Abandoned
30278	30278-US-CNT[3]	14/870355	2016/0094942	9668092	Granted
30278	30278-US-PAT	11/346280	2007/0184855		Abandoned
30278	30278-US-REI[3]	16/427248			Filing
30280	30280-US-DIV	12/909055	2011/0035790	7962450	Granted
30280	30280-US-PAT	11/550854	2008/0098039	7844576	Granted
30281	30281-US-CNT	12/366206	2009/0135798	8005058	Granted
30281	30281-US-PAT	11/335807	2007/0165583	7505446	Granted
30282	30282-US-CNT	13/180663	2012/0009927	8565768	Granted
30282	30282-US-PAT	11/265542	2007/0099615	7996010	Granted
30283	30283-US-PAT	11/191007	2007/0024235		Abandoned
30284	30284-US-CNT	12/548744	2009/0315730	8487587	Granted
30284	30284-US-CNT[2]	13/611845	2013/0002442	8594746	Granted
30284	30284-US-PAT	11/353204	2007/0188131	7599717	Granted
30285	30285-US-CIP	11/483122	2007/0021138	7813747	Granted
30285	30285-US-CNT	12/862212	2010/0323742	8467819	Granted
30285	30285-US-CNT[2]	13/771482	2013/0165173	9226120	Granted
30285	30285-US-PAT	11/182140	2007/0054686	8041376	Granted
30285	30285-US-PRV	60/700190			Converted
30286	30286-US-CNT	13/937385	2013/0297736		Abandoned
30286	30286-US-PAT	11/454840	2007/0294429	8510471	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30290	30290-US-CNT	11/395337	2007/0060119	7263035	Granted
30290	30290-US-PAT	11/222828		7054232	Granted
30291	30291-US-CNT	12/270182	2009/0082069	7856205	Granted
30291	30291-US-CNT[2]	12/943139	2011/0053655	8175525	Granted
30291	30291-US-PAT	11/280200	2007/0111763	7467982	Granted
30293	30293-US-PAT	11/924193	2009/0112576	8606562	Granted
30294	30294-US-PAT	11/425848	2007/0300080		Abandoned
30295	30295-US-PAT	11/365233	2007/0207756	7555294	Abandoned
30297	30297-US-PAT	11/364999	2007/0207799	7555293	Granted
30297-1	30297-1-US-PAT	11/364998	2007/0207758	7489905	Granted
30298	30298-US-CNT[3]	12/769425	2010/0269154		Abandoned
30298	30298-US-CNT[4]	13/173187	2011/0264731	8615549	Granted
30298	30298-US-CNT[5]	13/454591	2012/0210131	8930494	Granted
30298	30298-US-PAT	11/490503	2007/0198715	8543697	Granted
30298	30298-US-PAT2	11/490495	2007/0180125	8195763	Granted
30298	30298-US-PAT3	11/490521	2007/0198734		Abandoned
30298	30298-US-PAT4	11/490520	2007/0179985		Abandoned
30298	30298-US-PAT5	11/490522	2007/0198716		Abandoned
30298	30298-US-PAT6	11/490496	2007/0198634	8005891	Granted
30304	30304-US-CNT	12/503010	2009/0280744	7751380	Granted
30304	30304-US-CNT[2]	12/788781	2010/0232321	7912027	Granted
30304	30304-US-PAT	11/218609	2007/0066307	7603083	Granted
30305	30305-US-CNT	12/752330	2010/0189008	7873393	Granted
30305	30305-US-CNT[2]	12/949229	2011/0065485	8055314	Granted
30305	30305-US-CNT[3]	13/245242	2012/0015647	8423095	Granted
30305	30305-US-PAT	11/494443	2007/0184827	7706845	Granted
30305	30305-US-PRV	60/703429			Converted
30306	30306-US-CNT	13/208048	2011/0294531	8744443	Granted
30306	30306-US-PAT	11/750417	2007/0268877	8010105	Granted
30306	30306-US-PRV	60/801849			Converted
30307	30307-US-CNT	13/859834	2014/0018069	9119139	Granted
30307	30307-US-PAT	11/712536	2007/0270142	8428586	Granted
30307	30307-US-PRV	60/802008			Converted
30308	30308-US-CNT	13/453742	2012/0208469	8424760	Granted
30308	30308-US-DIV	12/972444	2011/0084136	8162211	Granted
30308	30308-US-DIV[2]	13/856509	2013/0228621	9111153	Granted
30308	30308-US-PAT	11/220592	2007/0051808	7878395	Granted
30315	30315-US-PAT	11/319407	2007/0156895	7849143	Granted
30317	30317-US-CNT	13/296660	2012/0057512	8953611	Granted
30317	30317-US-PAT	11/760376	2008/0205314	8081588	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30317	30317-US-PRV	60/882370			Converted
30318	30318-US-CNT	12/491144	2009/0264135	8463251	Granted
30318	30318-US-PAT	11/260179	2007/0099600	7840211	Granted
30319	30319-US-CNT	12/818307	2010/0254269	7978648	Granted
30319	30319-US-CNT[2]	13/170712	2011/0255476	8310992	Granted
30319	30319-US-PAT	11/226270	2007/0058578	7756075	Granted
30320	30320-US-CNT	12/622089	2010/0069049	8150377	Granted
30320	30320-US-CNT[2]	13/406861	2012/0157060	8340638	Granted
30320	30320-US-CNT[3]	13/722628	2013/0109356	8862100	Granted
30320	30320-US-PAT	11/260396	2007/0099620	7650140	Granted
30324	30324-US-PAT	11/218608	2007/0053313	7796979	Granted
30335	30335-US-CNT	12/049670	2008/0158163	8031182	Granted
30335	30335-US-PAT	11/301095	2007/0133788	7372959	Granted
30340	30340-US-CNT	13/541584	2012/0271620	8441448	Granted
30340	30340-US-CNT[2]	13/861938	2013/0222259	8743059	Granted
30340	30340-US-PAT	11/398906	2007/0239434	8237659	Granted
30341	30341-US-CNT	13/571701	2012/0300764	8570996	Granted
30341	30341-US-PAT	11/469626	2008/0057985		Abandoned
30368	30368-US-CNT	11/935732	2008/0054828	7635275	Granted
30368	30368-US-DIV	12/560596	2010/0000352	7976324	Granted
30368	30368-US-PAT	11/256991	2007/0093081	7320600	Granted
30369	30369-US-PAT	11/468505	2008/0055255	8098232	Granted
30374	30374-US-CNT	12/182528	2008/0284622		Abandoned
30374	30374-US-CNT[2]	13/151728	2011/0234500	8941511	Granted
30374	30374-US-CNT[3]	13/244820	2012/0013535	8330628	Granted
30374	30374-US-DES	29/238280		D555648	Expired
30374	30374-US-DES1	29/238279		D537082	Expired
30374	30374-US-PAT	11/245809	2007/0057821	7417565	Granted
30374	30374-US-PRV	60/716736			Converted
30381	30381-US-CNT	12/619998	2010/0138741	8239593	Granted
30381	30381-US-CNT[2]	13/541135	2012/0299834	8984187	Granted
30381	30381-US-PAT	11/216523	2007/0168588	7644209	Granted
30390	30390-US-CNT	12/962405	2011/0077084	8677250	Granted
30390	30390-US-CNT[2]	13/615361	2013/0007641	9266024	Granted
30390	30390-US-CNT[3]	13/615379	2013/0007632	9272210	Granted
30390	30390-US-PAT	11/537047	2008/0081698	7861175	Granted
30394	30394-US-PAT	11/452985	2007/0294413	7937684	Granted
30395	30395-US-CNT	12/628414	2010/0074136	8537668	Granted
30395	30395-US-PAT	11/671537	2008/0186957	7668088	Granted
30396	30396-US-PAT	11/350943	2007/0189217	8700038	Granted

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30397	30397-US-PAT	11/350942	2007/0192437	8433820	Granted
30398	30398-US-CNT	12/852284	2010/0315450	8878767	Granted
30398	30398-US-PAT	11/353014	2007/0188438	7821490	Granted
30406	30406-US-PAT	11/561554	2007/0173224	7809350	Granted
30413	30413-US-CNT	12/721701	2010/0159876	8090409	Granted
30413	30413-US-PAT	11/457546	2008/0014984	7711392	Granted
30414	30414-US-PAT	11/452907	2007/0073787		Abandoned
30414	30414-US-PRV	60/721534			Converted
30421	30421-US-PAT	11/359581	2007/0197163		Abandoned
30423	30423-US-CNT	13/414519	2012/0164996	8295867	Granted
30423	30423-US-CNT[2]	13/614728	2013/0012247		Abandoned
30423	30423-US-PAT	11/429482	2007/0274511	8155682	Granted
30424	30424-US-CNT	12/472915	2009/0232298	8005207	Granted
30424	30424-US-CNT[2]	13/181324	2011/0268307	8488777	Granted
30424	30424-US-PAT	11/258192	2007/0116261	7555118	Granted
30425	30425-US-PAT	11/261594	2007/0100762	8417640	Granted
30428	30428-US-PAT	11/468082	2008/0057967	8532650	Granted
30435	30435-US-CNT	13/481156	2012/0239765	8798244	Granted
30435	30435-US-PAT	11/469619	2008/0069321	8208610	Granted
30436	30436-US-CNT	13/094150	2011/0195725	8385941	Granted
30436	30436-US-CNT[2]	13/761260	2013/0150081	8515453	Granted
30436	30436-US-PAT	11/390214	2007/0232319	7945270	Granted
30439	30439-US-CNT	12/758461	2010/0197366	8280439	Granted
30439	30439-US-CNT[2]	13/598883	2012/0322513	8543162	Granted
30439	30439-US-CNT[3]	13/600400	2012/0328094	8670799	Granted
30439	30439-US-DIV	12/758513	2010/0197367	8285327	Granted
30439	30439-US-PAT	11/549503	2007/0123304	7697957	Granted
30439	30439-US-PRV	60/726165			Converted
30442	30442-US-CNT	13/350292	2012/0113854		Abandoned
30442	30442-US-PAT	11/236363	2007/0070931	8121069	Granted
30445	30445-US-CIP	11/554999	2007/0087766	8819144	Granted
30445	30445-US-PAT	11/249507	2007/0088787	8745140	Granted
30446	30446-US-PAT	11/420139	2008/0005261		Abandoned
30450	30450-US-CNT	13/692137	2013/0097422	8850202	Granted
30450	30450-US-CNT[2]	14/460978	2014/0359279	9391776	Granted
30450	30450-US-PAT	11/673013	2008/0195861	8356176	Granted
30452	30452-US-PAT	12/501633	2011/0010539	8881305	Granted
30453	30453-US-CIP	11/831491	2008/0009300	7979469	Granted
30453	30453-US-CNT	12/830888	2010/0287465	8280911	Granted
30453	30453-US-CNT[2]	13/602437	2012/0330933	8694543	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30453	30453-US-CNT[3]	14/182637	2014/0164917	9020975	Granted
30453	30453-US-PAT	11/423986	2007/0294239	7778957	Granted
30455	30455-US-PAT	11/477479	2008/0005280		Abandoned
30458	30458-US-CNT	12/729374	2010/0178961	8032187	Granted
30458	30458-US-CNT[2]	13/246901	2012/0021807	8280454	Granted
30458	30458-US-CNT[3]	13/592494	2012/0315959	8554284	Granted
30458	30458-US-PAT	11/549461	2007/0123303	7715884	Granted
30458	30458-US-PRV	60/726173			Converted
30459	30459-US-CNT	13/246204	2012/0021709	8718719	Granted
30459	30459-US-PAT	11/549762	2008/0014997	8032189	Granted
30459	30459-US-PRV	60/726242			Converted
30460	30460-US-CNT	12/939711	2011/0051637	8233438	Granted
30460	30460-US-CNT[2]	13/542972	2012/0275336	8457053	Granted
30460	30460-US-PAT	11/536874	2007/0076626	7869395	Granted
30460	30460-US-PRV	60/722852			Converted
30462	30462-US-PAT	11/249506	2007/0089048		Abandoned
30464	30464-US-CNT	12/910134	2011/0041137	8073883	Granted
30464	30464-US-PAT	11/552052	2008/0098054	7840612	Granted
30465	30465-US-PAT	11/865876	2009/0088189	7881243	Granted
30466	30466-US-PAT	11/272452	2007/0104206		Abandoned
30470	30470-US-CNT	12/759337	2010/0198379	7962171	Granted
30470	30470-US-PAT	11/249408	2007/0087779	7725125	Granted
30472	30472-US-PAT	11/313657	2007/0165844	8572389	Granted
30472	30472-US-PRV	60/726271			Converted
30475	30475-US-CNT	12/884894	2011/0003620	8554281	Granted
30475	30475-US-CNT[2]	14/017374	2014/0006009	9442921	Granted
30475	30475-US-PAT	11/430330	2007/0265828	7822434	Granted
30482	30482-US-CNT	14/059135	2014/0052828	9210205	Granted
30482	30482-US-PAT	12/117261	2009/0280784	8565740	Granted
30483	30483-US-CNT	13/343329	2012/0117460	9092543	Granted
30483	30483-US-PAT	11/251551	2007/0100928	8108404	Granted
30485	30485-US-CNT	12/709783	2010/0148721	8278870	Granted
30485	30485-US-CNT[2]	13/283910	2012/0046015	8639219	Granted
30485	30485-US-PAT	11/549383	2007/0123316	7667429	Granted
30485	30485-US-PRV	60/726164			Converted
30489	30489-US-CNT	13/017314	2011/0126262	8140867	Granted
30489	30489-US-PAT	11/342540	2007/0101151	7904729	Granted
30489	30489-US-PRV	60/726170			Converted
30491	30491-US-CNT	13/466786	2012/0221660	9892381	Granted

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30491	30491-US-CNT[2]	15/877059	2018/0144306		Publication of Application
30491	30491-US-PAT	11/320980	2007/0156821	8286089	Granted
30492	30492-US-CNT	12/182702	2008/0288237	8126446	Granted
30492	30492-US-CNT[2]	13/398324	2012/0149355	8688098	Granted
30492	30492-US-PAT	11/266327	2007/0105538	7613453	Granted
30493	30493-US-CNT	12/717040	2010/0160010	8249676	Granted
30493	30493-US-CNT[2]	13/550768			Abandoned
30493	30493-US-PAT	11/458453	2008/0032637	7690576	Granted
30495	30495-US-CNT	12/617989	2010/0053201	7884833	Granted
30495	30495-US-CNT[2]	13/006546	2011/0109645	8089491	Granted
30495	30495-US-CNT[3]	13/308677	2012/0075330	8259129	Granted
30495	30495-US-CNT[4]	13/584173	2012/0306743	8508547	Granted
30495	30495-US-PAT	11/416194	2007/0257933	7646392	Granted
30496	30496-US-CNT	14/815165	2015/0341770	9538344	Granted
30496	30496-US-PAT	11/377182	2007/0218925	9100802	Granted
30498	30498-US-CIP	11/671263	2007/0243862	8548452	Granted
30498	30498-US-CNT	14/024504	2014/0080471	9560499	Granted
30498	30498-US-PAT	11/402839	2007/0245026	7929960	Granted
30500	30500-US-CNT	13/292801	2012/0057583	8862135	Granted
30500	30500-US-PAT	11/377181	2007/0218911	8078178	Granted
30502	30502-US-PAT	11/675136	2008/0200149	8359011	Granted
30504	30504-US-CNT	12/716437	2010/0156865	8363006	Granted
30504	30504-US-PAT	11/261708	2007/0097065	7701434	Granted
30507	30507-US-CNT	11/857467	2008/0007475	7477202	Granted
30507	30507-US-CNT[2]	12/334816	2009/0093286	7825870	Granted
30507	30507-US-CNT[3]	12/916912	2011/0043417	7928925	Granted
30507	30507-US-CNT[4]	13/042010	2011/0156979	8164539	Granted
30507	30507-US-CNT[5]	13/425614	2012/0176290	8314747	Granted
30507	30507-US-CNT[6]	13/611497	2013/0002507	8446333	Granted
30507	30507-US-PAT	11/419770	2007/0273602	7310067	Granted
30510	30510-US-CNT	12/755092	2010/0190523	8185110	Granted
30510	30510-US-CNT[2]	13/455996	2012/0208538		Abandoned
30510	30510-US-PAT	11/263069	2007/0121566	7720482	Granted
30510	30510-US-PRV	60/731056			Converted
30510-1	30510-1-US-CNT	12/839179	2010/0285804	8260295	Granted
30510-1	30510-1-US-CNT[2]	13/567551	2012/0294286	8655362	Granted
30510-1	30510-1-US-PAT	11/263079	2007/0097923	7761097	Granted
30510-1	30510-1-US-PRV	60/731086			Converted
30510-2	30510-2-US-CNT	13/005417	2011/0103381		Abandoned

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30510-2	30510-2-US-PAT	11/263532	2007/0098147	7894375	Granted
30510-2	30510-2-US-PRV	60/731055			Converted
30511	30511-US-CNT	13/177919	2011/0263236		Abandoned
30511	30511-US-PAT	11/551126	2007/0111704	8000683	Granted
30511	30511-US-PRV	60/737391			Converted
30515	30515-US-CNT	13/617300	2013/0078981	8594744	Granted
30515	30515-US-PAT	11/378364	2007/0218958	8290543	Granted
30520	30520-US-PAT	11/566834	2008/0131031		Abandoned
30528	30528-US-CNT	12/696393	2010/0131266	8466878	Granted
30528	30528-US-CNT[2]	13/895598	2013/0249804	8730176	Granted
30528	30528-US-PAT	11/388743	2007/0225046	7679606	Granted
30529	30529-US-CNT	12/889464	2011/0016176	8065363	Granted
30529	30529-US-CNT[2]	13/290324	2012/0054291	8301711	Granted
30529	30529-US-PAT	11/426668	2007/0299918	7805489	Granted
30532	30532-US-PAT	11/424710	2007/0291795	8730802	Granted
30536	30536-US-PAT	11/414243	2007/0254646	8219080	Granted
30537	30537-US-CNT	13/606679	2013/0097327	8548374	Granted
30537	30537-US-PAT	11/423538	2007/0286159	8285197	Granted
30542	30542-US-PAT	11/305268	2007/0105570	7765402	Granted
30542	30542-US-PRV	60/734396			Converted
30543	30543-US-CIP	11/303296	2006/0248342	7769175	Granted
30543	30543-US-PRV	60/734383			Converted
30544	30544-US-CNT	12/620939	2010/0061330	8213375	Granted
30544	30544-US-PAT	11/489669	2007/0097913	7639645	Granted
30544	30544-US-PRV	60/731863			Converted
30545	30545-US-CNT	13/020262	2011/0122793	8254948	Granted
30545	30545-US-CNT[2]	13/547972	2012/0275441	8649319	Granted
30545	30545-US-PAT	11/272434	2007/0104175	7885215	Granted
30548	30548-US-PAT	11/271519	2007/0104135	7564815	Abandoned
30551	30551-US-CNT	12/334457	2009/0103505	7656852	Granted
30551	30551-US-CNT[2]	12/683032	2010/0111064	7804809	Granted
30551	30551-US-PAT	11/271517	2007/0104161	7492746	Granted
30551	30551-US-PRV	60/732489			Converted
30553	30553-US-PAT	11/554874	2007/0109204	7321336	Granted
30553	30553-US-PRV	60/732072			Converted
30554	30554-US-CNT	13/479343	2012/0237071	8750551	Granted
30554	30554-US-PAT	11/399497	2007/0237348	8213660	Granted
30555	30555-US-PAT	11/616309	2008/0163098	10156953	Granted
30556	30556-US-PAT	11/292976	2007/0127363	8619557	Granted
30556-1	30556-1-US-PAT	11/293471	2007/0127364		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30557	30557-US-CNT	13/213820	2011/0302262		Abandoned
30557	30557-US-CNT[2]	13/213832			Abandoned
30557	30557-US-CNT[3]	13/244862	2012/0058785		Abandoned
30557	30557-US-CNT[4]	13/244852	2012/0052889		Abandoned
30557	30557-US-PAT	11/303429	2007/0106739		Abandoned
30557	30557-US-PRV	60/734391			Converted
30560	30560-US-PAT	11/678106	2008/0207224	8509677	Granted
30561	30561-US-CNT	12/622849	2010/0069068	7848751	Granted
30561	30561-US-CNT[10]	17/340908	2021/0297381		Publication of Application
30561	30561-US-CNT[2]	12/957977	2011/0076997	8090363	Granted
30561	30561-US-CNT[3]	13/302224	2012/0071136	8320900	Granted
30561	30561-US-CNT[4]	13/673191	2013/0065560	8918084	Granted
30561	30561-US-CNT[5]	14/213025	2014/0199997	9549311	Granted
30561	30561-US-CNT[6]	15/333839	2017/0041775	9794770	Granted
30561	30561-US-CNT[7]	15/716011	2018/0027403	10136299	Granted
30561	30561-US-CNT[8]	16/192367	2019/0104400	10779156	Granted
30561	30561-US-CNT[9]	17/020339	2020/0413243	11032693	Granted
30561	30561-US-PAT	11/303428	2007/0105554	7630714	Granted
30561	30561-US-PRV	60/734448			Converted
30562	30562-US-PAT	11/476872	2008/0005200	7478118	Granted
30563	30563-US-CNT	13/307676	2012/0076093	8213947	Granted
30563	30563-US-PAT	11/673784	2008/0194266	8090380	Granted
30565	30565-US-CNT	12/198157	2008/0316122	7830325	Granted
30565	30565-US-CNT[2]	12/939043	2011/0050540	9214737	Granted
30565	30565-US-PAT	11/331516	2007/0164910	7423605	Granted
30566	30566-US-CNT	13/664874	2013/0113736	8577356	Granted
30566	30566-US-PAT	11/627400	2008/0184360	8311530	Granted
30569	30569-US-CNT	12/945412	2011/0059726	8095117	Granted
30569	30569-US-CNT[2]	13/316008	2012/0083247	8359013	Granted
30569	30569-US-CNT[3]	13/720423	2013/0107814	9088878	Granted
30569	30569-US-PAT	11/303800	2007/0106740	7853245	Granted
30569	30569-US-PRV	60/734390			Converted
30572	30572-US-CNT	12/472989	2009/0232045	8165611	Granted
30572	30572-US-CNT[2]	13/445472	2012/0250623	8385315	Granted
30572	30572-US-CNT[3]	13/745090	2013/0128819	9049681	Granted
30572	30572-US-PAT	11/305599	2007/0223428	7570609	Granted
30572	30572-US-PRV	60/734447			Converted
30573	30573-US-PAT	11/534239	2008/0077632	7730028	Granted
30575	30575-US-CNT	12/472638	2009/0231216	7791547	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30575	30575-US-CNT[2]	12/872533	2010/0328183	8013797	Granted
30575	30575-US-CNT[3]	13/206552	2011/0298671	8253635	Granted
30575	30575-US-CNT[4]	13/567736	2012/0293389	8432325	Granted
30575	30575-US-PAT	11/733360	2008/0254836	7554496	Granted
30576	30576-US-CNT	12/342600	2009/0102799	8330722	Granted
30576	30576-US-PAT	11/469636	2008/0055253	7489302	Granted
30579	30579-US-PAT	11/933799	2009/0117875	8571585	Abandoned
30580	30580-US-CNT	13/543953	2012/0278419	8693992	Granted
30580	30580-US-PAT	11/551009	2008/0095336	8238882	Granted
30581	30581-US-CNT	13/444659	2012/0195293	8634373	Granted
30581	30581-US-CNT[2]	14/159224	2014/0133299	9019933	Granted
30581	30581-US-CNT[3]	14/691024	2015/0230265		Abandoned
30581	30581-US-PAT	11/348618	2007/0183387	8179855	Granted
30582	30582-US-CNT	12/869963	2010/0323756	7953422	Granted
30582	30582-US-CNT[1]	13/100681	2011/0207480	8107975	Granted
30582	30582-US-CNT[2]	13/361112	2012/0129554	8472981	Granted
30582	30582-US-CNT[3]	13/924845	2014/0195529	9104696	Granted
30582	30582-US-CNT[4]	14/812686	2015/0331955	9552426	Granted
30582	30582-US-CNT[5]	15/361231	2017/0075926	10235390	Granted
30582	30582-US-CNT[6]	16/257797	2019/0155838	10599712	Granted
30582	30582-US-PAT	11/391560	2007/0233368	7797019	Granted
30583	30583-US-PAT	11/740027	2008/0266261		Abandoned
30585	30585-US-PAT	11/286629	2007/0117539		Abandoned
30586	30586-US-PAT	11/286861	2007/0117577	7676234	Granted
30605	30605-US-CNT	13/272302	2012/0029905	8612210	Granted
30605	30605-US-PAT	11/399641	2007/0239425	8065135	Granted
30605-1	30605-1-US-CIP	11/831449	2008/0010054	8065453	Granted
30605-1	30605-1-US-CNT	13/274798	2012/0035916	8417855	Granted
30605-1	30605-1-US-CNT[2]	13/792545	2013/0187859	8677038	Granted
30605-1	30605-1-US-PAT	11/399271	2007/0250650	7477165	Granted
30606	30606-US-CNT	12/697874	2010/0134419	8539348	Granted
30606	30606-US-PAT	11/400550	2007/0239427	7683885	Granted
30606-1	30606-1-US-CNT	13/096177	2011/0202335	8188978	Granted
30606-1	30606-1-US-CNT[2]	13/458084	2012/0215522	8289282	Granted
30606-1	30606-1-US-CNT[3]	13/616598	2013/0013293	8441449	Granted
30606-1	30606-1-US-PAT	11/400493	2007/0239426	7956844	Granted
30610	30610-US-CNT	13/346359	2012/0105352	8466812	Granted
30610	30610-US-CNT[2]	13/897009	2013/0249805	9377951	Granted
30610	30610-US-PAT	11/617877	2008/0158020	8115658	Granted
30612	30612-US-PAT	11/364480	2007/0203992	7831258	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30618	30618-US-PAT	11/468479	2008/0059172	8374862	Granted
30619	30619-US-PAT	11/745030	2007/0271376	8572486	Granted
30619	30619-US-PRV	60/747326			Converted
30621	30621-US-PAT	11/559533	2007/0156825		Abandoned
30621	30621-US-PRV	60/756018			Converted
30623	30623-US-PAT	11/430884	2007/0274598	8055096	Granted
30626	30626-US-CNT	13/198052	2011/0287744	8244217	Granted
30626	30626-US-PAT	11/305272	2007/0142032	8005459	Granted
30627	30627-US-CNT	12/355853	2009/0121723	7667450	Granted
30627	30627-US-CNT[2]	12/637346	2010/0090676	8232811	Granted
30627	30627-US-PAT	11/445258	2007/0279036	7498795	Granted
30628	30628-US-PAT	11/426095	2007/0300063		Abandoned
30629	30629-US-DIV	12/424028	2009/0215317	7811135	Granted
30629	30629-US-PAT	11/739893	2008/0268713	7537458	Granted
30630	30630-US-CNT	12/710618	2010/0153096	8090572	Granted
30630	30630-US-CNT[2]	13/308616	2012/0072205	8265926	Granted
30630	30630-US-CNT[3]	13/584310	2012/0310631	8515740	Granted
30630	30630-US-PAT	11/331700	2007/0168176	7698128	Granted
30631	30631-US-CNT	12/843602	2010/0293456	8537118	Granted
30631	30631-US-CNT[2]	13/968501	2013/0339004	8854311	Granted
30631	30631-US-CNT[3]	14/495434	2015/0029105	9442573	Granted
30631	30631-US-PAT	11/331593	2007/0165003	7786979	Granted
30633	30633-US-CNT	12/630825	2010/0078864	8262069	Granted
30633	30633-US-PAT	11/448852	2007/0284795	7648130	Granted
30636	30636-US-CNT	13/270017	2012/0052842	8380173	Granted
30636	30636-US-CNT[2]	13/745045	2013/0137400	8712381	Granted
30636	30636-US-PAT	11/305315	2007/0167151	8099082	Granted
30641	30641-US-PAT	11/622566	2008/0171535	7925306	Granted
30642	30642-US-CNT	13/005312	2011/0105111	8180284	Granted
30642	30642-US-CNT[2]	13/469180	2012/0225667	8406725	Granted
30642	30642-US-PAT	11/464847	2008/0045277	7885616	Granted
30643	30643-US-DED	29/281855		D575281	Granted
30643	30643-US-DES	29/247911		D550186	Expired
30643	30643-US-PAT	11/458613	2008/0048976		Abandoned
30647	30647-US-DED	29/253914		D556207	Expired
30647	30647-US-DED[2]	29/281844		D587718	Granted
30647	30647-US-DES	29/253913		D581924	Expired
30647	30647-US-PAT	11/674649	2007/0281733	8000741	Granted
30647	30647-US-PRV	60/773145			Converted
30653	30653-US-CNT	12/781397	2010/0269108	7970807	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30653	30653-US-CNT[2]	13/150752	2011/0237279	8166083	Granted
30653	30653-US-CNT[3]	13/451100	2012/0204089	8788604	Granted
30653	30653-US-CNT[4]	14/334807	2014/0331115	9298838	Granted
30653	30653-US-CNT[5]	15/082480	2016/0255464	9723438	Granted
30653	30653-US-CNT[6]	15/661830	2017/0325060	10075808	Granted
30653	30653-US-CNT[7]	16/126352	2019/0007792	10678819	Granted
30653	30653-US-PAT	11/483215	2007/0233695	7720893	Granted
30653	30653-US-PRV	60/787872			Converted
30654	30654-US-PAT	11/937843	2009/0125228		Abandoned
30668	30668-US-PAT	11/538958	2008/0085724	8682340	Granted
30670	30670-US-CNT	14/491588	2015/0009973	9554383	Granted
30670	30670-US-CNT[2]	15/376468	2017/0094659	10111222	Granted
30670	30670-US-CNT[3]	16/158094	2019/0069291	10681696	Granted
30670	30670-US-PAT	11/344524	2007/0177537	8843086	Granted
30682	30682-US-CNT	13/152662	2011/0231914	8683550	Granted
30682	30682-US-CNT[2]	14/172382	2014/0250504	9125056	Granted
30682	30682-US-PAT	11/344176	2007/0180504	7975287	Granted
30685	30685-US-CNT	13/089456	2011/0195690	8195128	Granted
30685	30685-US-CNT[2]	13/459388	2012/0213365	8315601	Granted
30685	30685-US-PAT	11/849433	2009/0061912	7949355	Granted
30687	30687-US-CIP	11/679470	2007/0204326	8544057	Granted
30687	30687-US-CNT	13/612048	2013/0007247	8689284	Granted
30687	30687-US-CNT[2]	14/228473	2014/0215554	9621587	Granted
30687	30687-US-PAT	11/362481	2007/0204324	8332906	Granted
30690	30690-US-CNT	12/981775	2011/0131035	8040261	Granted
30690	30690-US-CNT[2]	13/227709	2011/0316788	8294599	Granted
30690	30690-US-CNT[3]	13/620229	2013/0018653	8749406	Granted
30690	30690-US-PAT	11/331455	2007/0168175	7880646	Granted
30691	30691-US-CNT	12/436451	2009/0216523	7952497	Granted
30691	30691-US-CNT[2]	13/089508	2011/0196671	8515738	Granted
30691	30691-US-PAT	11/331925	2007/0168178	7538692	Granted
30692	30692-US-CNT	12/404727	2009/0174580	8497785	Granted
30692	30692-US-CNT[2]	13/925176	2013/0289979	8803713	Granted
30692	30692-US-CNT[3]	14/329205	2014/0320322	9250711	Granted
30692	30692-US-PAT	11/331851	2007/0205987	7525452	Granted
30693	30693-US-CNT	13/729107	2013/0120277	8577667	Granted
30693	30693-US-PAT	11/331817	2007/0168366	8370125	Granted
30699	30699-US-CNT	13/633263	2013/0024536	9020544	Granted
30699	30699-US-PAT	11/567260	2008/0140794	8285312	Granted
30701	30701-US-PAT	11/466526	2008/0051057		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30702	30702-US-CNT	12/686453	2010/0111233	7970078	Granted
30702	30702-US-CNT[2]	13/111990	2011/0222636	8184744	Granted
30702	30702-US-CNT[3]	13/429662	2012/0183036	8842776	Granted
30702	30702-US-PAT	11/398043	2007/0237268	7672412	Granted
30703	30703-US-CNT	12/617041	2010/0053863		Abandoned
30703	30703-US-CNT[2]	12/752726	2010/0189297	8593397	Granted
30703	30703-US-DIV	12/750099	2010/0182741	8531393	Granted
30703	30703-US-PAT	11/412425	2007/0252810	7714838	Granted
30705	30705-US-PAT	11/841166	2009/0055643	9237148	Granted
30706	30706-US-CNT	13/341264	2012/0102195		Abandoned
30706	30706-US-PAT	11/968447	2009/0171906		Abandoned
30707	30707-US-CNT	13/211632	2011/0302260	8407304	Granted
30707	30707-US-PAT	11/615091	2008/0155035	8028027	Granted
30709	30709-US-PAT	11/685363	2008/0227429	9020462	Granted
30716	30716-US-PAT	11/393869	2007/0234208	7673256	Granted
30717	30717-US-CNT	13/089896	2011/0193530	8026696	Granted
30717	30717-US-PAT	11/972214	2009/0179618	7956581	Granted
30718	30718-US-CNT	13/313514	2012/0079016		Abandoned
30718	30718-US-PAT	11/677186	2008/0201419	8095603	Granted
30719	30719-US-CNT	12/538984	2009/0300536	8316317	Granted
30719	30719-US-CNT[2]	13/653561	2013/0042198	8484575	Granted
30719	30719-US-PAT	11/420250	2007/0277117	7607105	Granted
30724	30724-US-DIV	14/547230	2015/0072666		Abandoned
30724	30724-US-PAT	11/677126	2008/0200159		Abandoned
30726	30726-US-PAT	11/755012	2008/0299969		Abandoned
30727	30727-US-CNT	12/907419	2011/0035504	8250224	Granted
30727	30727-US-CNT[2]	13/554277	2012/0284378	8549158	Granted
30727	30727-US-PAT	11/552539	2008/0104681	7840686	Granted
30729	30729-US-CNT	12/939068	2011/0041316	8027172	Granted
30729	30729-US-CNT[2]	13/245266	2012/0033398	8644033	Granted
30729	30729-US-DIV	12/368837	2009/0144960	7830673	Granted
30729	30729-US-PAT	11/465487	2008/0043452	7508684	Granted
30731	30731-US-PAT	11/421843	2007/0283430		Abandoned
30732	30732-US-CNT	12/891976	2011/0013513	8693461	Granted
30732	30732-US-PAT	11/554075	2008/0101231	7843820	Granted
30738	30738-US-CNT	15/056861	2016/0179347	10423311	Granted
30738	30738-US-CNT[2]	16/579631	2020/0019298	11029827	Granted
30738	30738-US-PAT	11/925619	2009/0109182	9274698	Granted
30741	30741-US-PAT	11/460295	2008/0025307		Abandoned
30745	30745-US-PAT	11/966190	2009/0167695	9477321	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30752	30752-US-CNT	13/923988	2013/0290455		Abandoned
30752	30752-US-PAT	11/671540	2008/0189370	8489684	Granted
30753	30753-US-CNT	12/346049	2009/0112578	7944373	Granted
30753	30753-US-CNT[2]	13/080101	2011/0184728	8731903	Granted
30753	30753-US-PAT	11/331813	2007/0168177	7545290	Granted
30754	30754-US-CNT	13/325420	2012/0084255	8694463	Granted
30754	30754-US-PAT	11/616323	2008/0162597	8099386	Granted
30754-1	30754-1-US-PAT	11/616353	2008/0162501	8275741	Granted
30756	30756-US-PAT	12/342637	2010/0157864	8437313	Granted
30759	30759-US-PAT	11/674703	2008/0191905		Abandoned
30760	30760-US-CNT	12/690547	2010/0120403	8073494	Granted
30760	30760-US-PAT	11/566821	2008/0132221	7676249	Granted
30761	30761-US-CNT	13/306026	2012/0072517	9240902	Granted
30761	30761-US-PAT	11/766158	2008/0320103	8086674	Granted
30763	30763-US-CNT	13/571507	2012/0302260	8768254	Granted
30763	30763-US-PAT	11/756675	2008/0301567	8285206	Granted
30765	30765-US-PAT	11/769377	2009/0005008	8706075	Granted
30771	30771-US-PAT	11/763526	2008/0313594	8732652	Granted
30779	30779-US-PAT	11/551960	2008/0095130		Abandoned
30781	30781-US-PAT	11/564993			Abandoned
30781	30781-US-PAT2	11/565193	2008/0130594	7961703	Granted
30782	30782-US-CNT	11/619429			Abandoned
30782	30782-US-CNT2	11/733494	2008/0124965	7422461	Granted
30782	30782-US-PAT	11/434158		7217148	Granted
30792	30792-US-CNT	12/619863	2010/0062812	8614627	Granted
30792	30792-US-PAT	11/536189	2008/0081674	7639130	Granted
30793	30793-US-CNT	13/219002	2011/0312308	8805876	Granted
30793	30793-US-PAT	11/567009	2008/0132296	8032547	Granted
30797	30797-US-CNT	12/901633	2011/0028192	8068061	Granted
30797	30797-US-CNT[2]	13/304887	2012/0071113	8274438	Granted
30797	30797-US-CNT[3]	13/584060	2012/0306706	8487819	Granted
30797	30797-US-PAT	11/467955	2008/0055162	7812770	Granted
30798	30798-US-PAT	11/946242	2009/0138823	8615720	Granted
30803	30803-US-CNT	13/759324	2013/0147713	8850343	Granted
30803	30803-US-PAT	11/483125	2007/0256026	8397171	Granted
30803	30803-US-PRV	60/788554			Converted
30805	30805-US-CNT	12/961925	2011/0078268	8209388	Granted
30805	30805-US-PAT	11/614227	2008/0155028	7870207	Granted
30808	30808-US-CNT	13/558282	2012/0287811	8346247	Abandoned
30808	30808-US-CNT[2]	13/691815	2013/0091277	8712398	Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30808	30808-US-PAT	11/687139	2008/0227444	8238899	Abandoned
30811	30811-US-CNT	13/369857	2012/0142330		Abandoned
30811	30811-US-PAT	12/212775	2010/0069053	8135393	Granted
30812	30812-US-DED[1]	29/345098		D611937	Granted
30812	30812-US-DES	29/253915		D610141	Granted
30812	30812-US-DES1	29/253917		D602018	Granted
30812	30812-US-DES2	29/254873		D551227	Expired
30812	30812-US-DES3	29/254887		D550665	Expired
30812	30812-US-DES4	29/248288		D587264	Granted
30812	30812-US-PRV	60/821697			Converted
30812	30812-US-PRV2	60/821684			Converted
30812	30812-US-PRV3	60/821693			Converted
30813	30813-US-CNT	12/896224	2011/0029627	8312165	Granted
30813	30813-US-CNT[2]	13/672073	2013/0067009	8473561	Granted
30813	30813-US-CNT[3]	13/905207	2013/0268607	8943156	Granted
30813	30813-US-PAT	11/473313	2007/0299921	7814161	Granted
30815	30815-US-PAT	11/405494	2006/0253548		Abandoned
30815	30815-US-PRV	60/672241			Converted
30817	30817-US-CNT	12/629912	2010/0088498	7870303	Granted
30817	30817-US-PAT	11/461460	2008/0126788	7650437	Granted
30819	30819-US-PAT	11/670581	2007/0184868	9794307	Granted
30819	30819-US-PRV	60/765097			Converted
30823	30823-US-CNT	13/609692	2013/0007159	8621021	Granted
30823	30823-US-PAT	11/389777	2007/0226301	8291020	Granted
30824	30824-US-CNT	12/870606	2010/0325231		Abandoned
30824	30824-US-PAT	11/389906	2007/0226303	7787864	Granted
30825	30825-US-CNT	13/113483	2011/0223947	8351965	Granted
30825	30825-US-PAT	11/389894	2007/0226302	7962125	Granted
30832	30832-US-DIV	13/761943	2013/0148764	8842759	Granted
30832	30832-US-PAT	11/674470	2007/0189405	8406318	Granted
30832	30832-US-PRV	60/772574			Converted
30833	30833-US-PAT	11/397211	2007/0230702		Abandoned
30835	30835-US-DIV	12/488799	2009/0258648		Abandoned
30835	30835-US-PAT	11/356913	2007/0197220		Abandoned
30837	30837-US-PAT	11/383501	2007/0270115	7580692	Granted
30838	30838-US-CNT	12/856899	2010/0306756	8365160	Granted
30838	30838-US-CNT[2]	13/729492	2013/0125109	8943492	Granted
30838	30838-US-PAT	11/426331	2007/0300205	7779401	Granted
30839	30839-US-CNT	12/480899	2009/0249199	7966574	Granted
30839	30839-US-CNT[2]	13/108898	2011/0219337	9286288	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30839	30839-US-PAT	11/428073	2008/0004860	7565624	Granted
30839-1	30839-1-US-CNT	13/760518	2013/0144820	9171234	Granted
30839-1	30839-1-US-PAT	11/427971	2008/0002885	8395586	Granted
30839-2	30839-2-US-CNT	12/646212	2010/0100368	8296679	Granted
30839-2	30839-2-US-CNT[2]	13/619805	2013/0073572		Abandoned
30839-2	30839-2-US-PAT	11/428020	2008/0004859	7665037	Granted
30845	30845-US-PAT	11/674640	2007/0211034	8537117	Granted
30845	30845-US-PRV	60/773798			Converted
30846	30846-US-PAT	11/685702	2007/0259698	7970431	Granted
30846	30846-US-PRV	60/767231			Converted
30850	30850-US-CNT	12/718541	2010/0159985	7953436	Granted
30850	30850-US-CNT[2]	13/089941	2011/0195747	8725206	Granted
30850	30850-US-PAT	11/469486	2008/0058006	7706837	Granted
30852	30852-US-PAT	11/563074	2008/0123872	9058819	Granted
30853	30853-US-PAT	11/556400	2008/0109735		Abandoned
30854	30854-US-PAT	11/422430	2007/0188458	8232965	Granted
30854-1	30854-1-US-PAT	11/422439	2007/0188459		Abandoned
30854-2	30854-2-US-PAT	11/422444	2007/0188460		Abandoned
30854-3	30854-3-US-PAT	11/422452	2007/0188461		Abandoned
30856	30856-US-CIP	11/618409	2007/0192705	8341551	Granted
30856	30856-US-CIP2	11/618497	2007/0192708		Abandoned
30856	30856-US-CIP3	11/618500	2007/0192736	7669144	Granted
30856	30856-US-CIP4	11/618538	2007/0192742		Abandoned
30856	30856-US-CIP5	11/618626	2007/0192738		Abandoned
30856	30856-US-CIP6	11/618645	2007/0192750	8689138	Granted
30856	30856-US-CIP7	11/618590	2007/0192743	7568169	Granted
30856	30856-US-CIP8	11/618622	2007/0192737		Abandoned
30856	30856-US-PAT	11/423837	2007/0192711		Abandoned
30856-1	30856-1-US-PAT	11/423875	2007/0192712	8904286	Abandoned
30856-2	30856-2-US-PAT	11/423890	2007/0192713		Abandoned
30856-3	30856-3-US-PAT	11/423905	2007/0192714		Abandoned
30857	30857-US-PAT	11/423769	2007/0188465		Abandoned
30857-1	30857-1-US-PAT	11/423771	2007/0188466		Abandoned
30857-2	30857-2-US-PAT	11/423773	2007/0200733	7633412	Granted
30857-3	30857-3-US-PAT	11/423774	2007/0200734	7649477	Granted
30858	30858-US-PAT	11/422525	2007/0192026	8209063	Abandoned
30858-1	30858-1-US-PAT	11/422531	2007/0192027		Abandoned
30858-2	30858-2-US-DIV	12/577076	2010/0259369	8537108	Abandoned
30858-2	30858-2-US-PAT	11/422538	2007/0192028	7770118	Abandoned
30858-3	30858-3-US-PAT	11/422545	2007/0192699		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30859	30859-US-PAT	11/423740	2007/0188462	8878784	Abandoned
30859-1	30859-1-US-PAT	11/423751	2007/0188463		Abandoned
30859-2	30859-2-US-PAT	11/423756	2007/0188464		Abandoned
30859-3	30859-3-US-PAT	11/423766	2007/0209024	7552142	Abandoned
30860	30860-US-PAT	11/423779	2007/0188467		Abandoned
30860-1	30860-1-US-PAT	11/423806	2007/0188468		Abandoned
30860-2	30860-2-US-PAT	11/423811	2007/0188469		Abandoned
30860-3	30860-3-US-PAT	11/423816	2007/0188470	8654078	Granted
30862	30862-US-PAT	11/616390	2008/0162486		Abandoned
30863	30863-US-PAT	12/019618	2009/0190802	8838989	Granted
30863-1	30863-1-US-PAT	12/019625	2009/0193151	9378346	Granted
30867	30867-US-CNT	12/724569	2010/0166408	8265470	Granted
30867	30867-US-CNT[2]	13/559240	2012/0288265	8346072	Granted
30867	30867-US-PAT	11/469487	2008/0056696	7711256	Granted
30868	30868-US-CNT	13/229805	2011/0316789	8184022	Granted
30868	30868-US-CNT[2]	13/450053	2012/0200505	8358225	Granted
30868	30868-US-CNT[3]	13/718766	2013/0110503	9275045	Granted
30868	30868-US-PAT	11/558542	2008/0114590	8035534	Granted
30869	30869-US-CNT	13/479922	2012/0229658	8405730	Granted
30869	30869-US-CNT[2]	13/652264	2013/0040632	8497912	Granted
30869	30869-US-PAT	11/469514	2008/0055408	8218015	Granted
30871	30871-US-PAT	11/418176	2007/0260876		Abandoned
30872	30872-US-CNT	12/550882	2009/0319711	8209454	Granted
30872	30872-US-CNT[2]	13/477569	2012/0233291	8706840	Granted
30872	30872-US-CNT[3]	14/096615	2014/0095661	9137328	Granted
30872	30872-US-CNT[4]	14/750625	2015/0295846	10069750	Granted
30872	30872-US-CNT[5]	16/119546	2018/0374534	10424373	Granted
30872	30872-US-PAT	11/394232	2007/0239843	7600064	Granted
30873	30873-US-CNT	13/329458	2012/0089737	8335880	Granted
30873	30873-US-CNT[2]	13/612423	2013/0007283	9210221	Granted
30873	30873-US-DIV	13/099083	2011/0208865	8266357	Granted
30873	30873-US-PAT	11/394112	2007/0239842	8122174	Granted
30874	30874-US-PAT	11/394111	2007/0236461	7825900	Granted
30876	30876-US-CIP	11/554946	2007/0232360	7568011	Granted
30876	30876-US-CNT	12/487989	2009/0265442	8001198	Granted
30876	30876-US-CNT[2]	12/750783	2010/0184410	8001201	Granted
30876	30876-US-CNT[3]	13/181975	2011/0270939	8150931	Granted
30876	30876-US-CNT[4]	13/407275	2012/0166563	8775536	Granted
30876	30876-US-PAT	11/396716	2007/0233793	7720917	Granted
30877	30877-US-CIP	11/554940	2007/0250583	8099467	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30877	30877-US-CNT	13/220140	2011/0314118	9805341	Granted
30877	30877-US-PAT	11/407219	2007/0250578	8156187	Granted
30880	30880-US-CNT	12/901000	2011/0029870	8943407	Granted
30880	30880-US-PAT	11/278328	2007/0229517	7836400	Granted
30882	30882-US-CNT	12/121190	2008/0212410	7505371	Granted
30882	30882-US-PAT	11/278496	2007/0230282	7385875	Granted
30883	30883-US-CNT	12/536808	2009/0300504	7840210	Granted
30883	30883-US-CNT[2]	12/903689	2011/0028131	8208907	Granted
30883	30883-US-PAT	11/278489	2007/0232278	7590413	Granted
30883	30883-US-REI[2]	14/298699			Filing
30884	30884-US-PAT	11/456286	2008/0009325		Abandoned
30885	30885-US-CNT	12/559760	2010/0004032	8160649	Granted
30885	30885-US-CNT[2]	13/410953	2012/0172070	8731617	Granted
30885	30885-US-PAT	11/278310	2007/0238487	7606598	Granted
30886	30886-US-CNT	13/181009	2011/0269509	8611966	Granted
30886	30886-US-PAT	11/278479	2007/0264977	8000747	Granted
30887	30887-US-CNT	13/904390	2013/0262094		Abandoned
30887	30887-US-PAT	11/396278	2007/0269777	8469712	Granted
30888	30888-US-CNT	12/972853	2011/0093255	8190421	Granted
30888	30888-US-CNT[2]	13/456793	2012/0209591	8589145	Granted
30888	30888-US-PAT	11/396275	2007/0269776	7881923	Granted
30890	30890-US-CNT	12/371136	2009/0207190	7733356	Granted
30890	30890-US-CNT[2]	12/767352	2010/0235753	7843472	Granted
30890	30890-US-CNT[3]	12/911230	2011/0032273	8018474	Granted
30890	30890-US-PAT	11/395107	2007/0234239	7511723	Granted
30891	30891-US-CNT	12/620862	2010/0064019	8117269	Granted
30891	30891-US-CNT[2]	13/348547	2012/0158874	8352565	Granted
30891	30891-US-CNT[3]	13/687832	2013/0091233	8499054	Granted
30891	30891-US-PAT	11/395798	2007/0233792	7640311	Granted
30893	30893-US-CNT	14/068296	2014/0059150	9608948	Granted
30893	30893-US-PAT	11/395656	2007/0233791	8601063	Granted
30897	30897-US-PAT	11/458145	2008/0018606	7825899	Granted
30898	30898-US-CNT	13/558810	2012/0290844	8804966	Granted
30898	30898-US-PAT	11/859980	2009/0080661	8254582	Granted
30901	30901-US-PAT	11/456601	2008/0013717	8396211	Granted
30905	30905-US-PAT	11/589249	2008/0104674	8484472	Granted
30906	30906-US-CNT	13/616189	2013/0013710	9124721	Granted
30906	30906-US-PAT	11/420242	2007/0277120	8307307	Granted
30907	30907-US-PAT	11/414710	2008/0005117	8146101	Granted
30907-1	30907-1-US-PAT	11/414779	2007/0255910	7644149	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30907-2	30907-2-US-CNT	13/074328	2011/0179138		Abandoned
30907-2	30907-2-US-PAT	11/414785	2007/0276887	7937361	Granted
30909	30909-US-PAT	11/376897	2007/0217354	7706779	Granted
30913	30913-US-PAT	12/040640	2009/0219176	8704648	Granted
30919	30919-US-CNT	12/754145	2010/0187309	8146832	Granted
30919	30919-US-CNT[2]	13/409053	2012/0160909	8540164	Granted
30919	30919-US-PAT	11/457159	2008/0011851	7690579	Granted
30921	30921-US-PAT	11/935182	2009/0115731	8400400	Granted
30922	30922-US-CNT	12/100613	2008/0186240	7511673	Granted
30922	30922-US-CNT[2]	12/392321	2009/0160715	7940222	Granted
30922	30922-US-CNT[3]	13/103144	2011/0210894	8564487	Granted
30922	30922-US-CNT[4]	14/034592	2014/0022130	8847829	Granted
30922	30922-US-CNT[5]	14/471521	2014/0368390	9263795	Granted
30922	30922-US-PAT	11/468803	2008/0055163	7369091	Granted
30923	30923-US-CNT	12/763590	2010/0205267	8825878	Granted
30923	30923-US-CNT[2]	13/176342	2011/0264733		Abandoned
30923	30923-US-PAT	11/416193	2007/0094337	9009264	Granted
30923	30923-US-PRV	60/728741			Converted
30925	30925-US-PAT	11/735675	2008/0253311	8819110	Granted
30928	30928-US-CNT	12/393479	2009/0164972	7840605	Granted
30928	30928-US-PAT	11/446229	2007/0282889	7516141	Granted
30933	30933-US-CNT	13/047255	2011/0167392		Publication of Application
30933	30933-US-PAT	11/483167	2007/0233385	7913192	Granted
30933	30933-US-PRV	60/788433			Converted
30934	30934-US-CIP	11/693953	2008/0176545	8121610	Granted
30934	30934-US-CNT	13/348814	2012/0149401	9083789	Granted
30934	30934-US-CNT[2]	13/554448	2012/0289259		Abandoned
30934	30934-US-CNT[3]	14/798197	2015/0319581	10045158	Granted
30934	30934-US-CNT[4]	16/054776	2018/0343545	10567921	Granted
30934	30934-US-PAT	11/483124	2007/0229549	8244279	Granted
30934	30934-US-PRV	60/788458			Converted
30935	30935-US-PAT	11/483168	2007/0229538		Abandoned
30935	30935-US-PRV	60/788434			Converted
30937	30937-US-CNT	13/213797	2011/0300848	9091555	Granted
30937	30937-US-PAT	11/483123	2007/0229490	8014796	Granted
30937	30937-US-PRV	60/788421			Converted
30939	30939-US-CNT	13/163851	2011/0249032		Abandoned
30939	30939-US-PAT	11/735524	2008/0253757	7995079	Granted
30940	30940-US-CNT	13/436284	2012/0182221	9075450	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
30940	30940-US-PAT	11/558622	2008/0115054	8171402	Granted
30948	30948-US-CNT	13/947522	2013/0305180	9513779	Granted
30948	30948-US-PAT	11/458466	2008/0022226	8527887	Granted
30949	30949-US-CNT	12/335212	2009/0095812	7891557	Granted
30949	30949-US-PAT	11/412759	2007/0251997	7464865	Granted
30950	30950-US-PAT	11/458020	2008/0011827		Abandoned
30958	30958-US-PAT	11/610583	2008/0146149		Abandoned
30961	30961-US-CNT	13/351049	2012/0117637	8839398	Granted
30961	30961-US-PAT	11/458032	2008/0016537	8112794	Granted
30962	30962-US-CNT	13/323203	2012/0117636	8745717	Granted
30962	30962-US-PAT	11/458029	2008/0016368	8079068	Granted
30963	30963-US-PAT	12/014301	2009/0178911	7700890	Granted
30966	30966-US-CNT	13/235903	2012/0009908	8285265	Granted
30966	30966-US-CNT[2]	13/608989	2013/0066985	8644807	Granted
30966	30966-US-PAT	12/256050	2009/0280843	8032125	Granted
30967	30967-US-CNT	13/491996	2012/0306272	8493029	Granted
30967	30967-US-CNT[2]	13/929932	2013/0285614	8760119	Granted
30967	30967-US-PAT	12/436498	2009/0278506	8217626	Granted
30967	30967-US-PRV	61/052010			Converted
30968	30968-US-PAT	11/744282	2008/0273014	9195329	Granted
30973	30973-US-CNT	12/910123	2011/0041138	8391845	Granted
30973	30973-US-PAT	11/405510	2007/0083664	7835726	Granted
30973	30973-US-PRV	60/672032			Converted
30974	30974-US-PAT	11/389917	2007/0226304		Abandoned
30975	30975-US-CNT	13/617024	2013/0014004	9880982	Granted
30975	30975-US-PAT	11/389970	2007/0226608	8316293	Granted
30976	30976-US-CNT	13/296645	2012/0066297	8315603	Granted
30976	30976-US-PAT	11/389907	2007/0226658	8081970	Granted
30978	30978-US-PAT	11/859020	2009/0079425	7843193	Granted
30980	30980-US-PAT	11/554331	2008/0101594	8254564	Granted
30983	30983-US-CNT	12/468152	2009/0221300	8188914	Granted
30983	30983-US-CNT[2]	13/462027	2012/0212370	8482460	Granted
30983	30983-US-CNT[3]	13/922522	2013/0278459	10145958	Granted
30983	30983-US-PAT	11/695111	2007/0241956	7551131	Granted
30983	30983-US-PRV	60/789813			Converted
30989	30989-US-PAT	11/778197	2009/0023478	8866743	Granted
30995	30995-US-CNT	12/942571	2011/0059722	8437735	Granted
30995	30995-US-PAT	11/675121	2008/0200142	7853240	Granted
30996	30996-US-CNT	13/751268	2013/0145468		Abandoned
30996	30996-US-PAT	11/779372	2009/0025089	8365282	Granted

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31005	31005-US-CNT	13/274031	2012/0066505	8397076	Granted
31005	31005-US-CNT[2]	13/763155	2013/0198508	9032220	Granted
31005	31005-US-CNT[3]	14/444377	2015/0016612	9425957	Granted
31005	31005-US-PAT	11/383369	2007/0266258	8074078	Granted
31007	31007-US-PAT	11/410275	2007/0247289	7711349	Granted
31012	31012-US-CNT	12/346116	2009/0119582	7843364	Granted
31012	31012-US-CNT[2]	12/911251	2011/0037623	8018355	Granted
31012	31012-US-CNT[3]	13/206834	2011/0291941	8390574	Granted
31012	31012-US-CNT[4]	13/718293	2013/0106705	8791905	Granted
31012	31012-US-PAT	11/427946	2008/0001785	7586423	Granted
31018	31018-US-PAT	12/551795	2011/0053656	8359057	Granted
31024	31024-US-PAT	11/614194	2008/0153487		Abandoned
31026	31026-US-PAT	11/614188	2008/0155027	8903936	Granted
31029	31029-US-PAT	11/678246	2008/0207263		Abandoned
31033	31033-US-PAT	11/460420	2008/0039051		Abandoned
31034	31034-US-PAT	11/415093	2007/0260744	8019892	Granted
31035	31035-US-CNT	12/649671	2010/0106790	8095607	Granted
31035	31035-US-PAT	11/415142	2007/0260718	7644139	Granted
31037	31037-US-PAT	11/415289	2007/0260674		Abandoned
31039	31039-US-PAT	11/415241	2007/0260637		Abandoned
31040	31040-US-PAT	11/466483	2008/0051144	8359047	Granted
31041	31041-US-CNT	13/478225	2012/0238289		Abandoned
31041	31041-US-PAT	11/677177	2008/0198820	8195249	Granted
31042	31042-US-PAT	11/625419	2008/0176579	7844269	Granted
31043	31043-US-PAT	11/972202	2009/0181671	8279798	Granted
31045	31045-US-CNT	12/033685	2008/0139016	7576552	Granted
31045	31045-US-PAT	11/494502	2008/0024150	7365552	Granted
31046	31046-US-PAT	11/741149	2008/0267309	9282503	Granted
31047	31047-US-PAT	11/928679	2009/0113543		Abandoned
31054	31054-US-CNT	13/366929	2012/0133493	8665105	Granted
31054	31054-US-PAT	11/674306	2008/0191892	8111144	Granted
31056	31056-US-CNT	13/192898	2011/0280401	8855310	Granted
31056	31056-US-CNT[2]	14/464005	2014/0359274	9768955	Granted
31056	31056-US-PAT	11/432418	2007/0263872	8005223	Granted
31057	31057-US-PAT	11/432414	2007/0266247	8670566	Granted
31058	31058-US-CNT	13/461319	2012/0216042	8943323	Granted
31058	31058-US-PAT	11/458783	2008/0022103	8527770	Granted
31063	31063-US-PAT	11/846698	2009/0061827	9042869	Granted
31067	31067-US-PAT	11/833521	2009/0037541	8688788	Granted
31069	31069-US-PAT	11/970382	2009/0174655	7843428	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31073	31073-US-PAT	11/460814	2008/0025317	7796605	Granted
31075	31075-US-PAT	11/749346	2007/0268260	7898526	Granted
31075	31075-US-PRV	60/800669			Converted
31077	31077-US-CNT	12/860992	2011/0018501	8098051	Granted
31077	31077-US-PAT	11/459434	2008/0018304	7808212	Granted
31081	31081-US-PAT	11/831200	2009/0034506	7957418	Abandoned
31082	31082-US-CNT	12/950439	2011/0066953	8504923	Granted
31082	31082-US-CNT[2]	13/954055	2013/0318456	9542065	Granted
31082	31082-US-PAT	11/748751	2007/0271523	7840901	Granted
31082	31082-US-PRV	60/800416			Converted
31086	31086-US-PAT	11/466821	2008/0052341	7788330	Granted
31088	31088-US-PAT	11/761118	2008/0301930	8132317	Granted
31095	31095-US-PAT	11/462833	2008/0032735		Abandoned
31104	31104-US-CNT	12/720458	2010/0169512	8037211	Granted
31104	31104-US-CNT[2]	13/238962	2012/0011285	8312179	Granted
31104	31104-US-CNT[3]	13/654047	2013/0042037	8578062	Granted
31104	31104-US-PAT	11/530549	2008/0126573	7707323	Granted
31104-1	31104-1-US-PAT	11/530553	2008/0126574	7711863	Granted
31107	31107-US-DIV	12/943106	2012/0117165	8539104	Granted
31107	31107-US-PAT	11/423475	2007/0288469		Abandoned
31108	31108-US-CNT	12/849067	2010/0312855	8856270	Granted
31108	31108-US-PAT	11/468397	2008/0059632	7792965	Granted
31111	31111-US-CNT	12/818335	2010/0257249	8001203	Granted
31111	31111-US-CNT[2]	13/179930	2011/0270938	8176136	Granted
31111	31111-US-CNT[3]	13/450719	2012/0209927	8402104	Granted
31111	31111-US-CNT[4]	13/775669	2013/0166664	8930477	Granted
31111	31111-US-PAT	11/673077	2008/0195707	7761523	Granted
31112	31112-US-CIP	11/616930	2008/0043958	8145200	Granted
31112	31112-US-CNT	13/397886	2012/0151196		Abandoned
31112	31112-US-PAT	11/495779	2008/0026729		Abandoned
31115	31115-US-CNT	12/783278	2010/0227616	8295843	Granted
31115	31115-US-PAT	11/459034	2008/0020780	7747256	Granted
31116	31116-US-PAT	11/562102	2008/0120360	9070114	Granted
31118	31118-US-CNT	12/785009	2010/0233978	8295397	Granted
31118	31118-US-CNT[2]	13/611914	2013/0005286	8761305	Granted
31118	31118-US-PAT	11/763099	2007/0291872	7873119	Granted
31118	31118-US-PRV	60/813340			Converted
31119	31119-US-CNT	12/784971	2010/0227578	8160517	Granted
31119	31119-US-CNT[2]	13/351328	2012/0122411	8295792	Granted
31119	31119-US-CNT[3]	13/611094	2013/0012147	8606199	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31119	31119-US-PAT	11/763068	2007/0291718	7907920	Granted
31119	31119-US-PRV	60/813352			Converted
31120	31120-US-CNT	12/639461	2010/0225495	8063751	Granted
31120	31120-US-PAT	11/615029	2008/0150959	7656275	Granted
31121	31121-US-PAT	11/562118	2008/0119218	8942182	Granted
31122	31122-US-PAT	12/394683	2010/0220442	7974091	Granted
31124	31124-US-CIP	10/144714	2002/0128023	7257205	Expired
31124	31124-US-CIP1	10/440090	2003/0181209	7292858	Expired
31124	31124-US-CNT	11/604740	2007/0127680	7274782	Expired
31124	31124-US-CNT[7]	12/695650	2010/0124904	8380245	Expired
31124	31124-US-CNT2	11/775960	2007/0259688	7680511	Expired
31124	31124-US-CNT3	11/777703	2010/0255829	8170187	Expired
31124	31124-US-CNT4	11/842399	2008/0032716	7440561	Expired
31124	31124-US-CNT5	11/926724	2008/0107252	8144856	Expired
31124	31124-US-CNT6	12/203160	2008/0317236	8135121	Expired
31124	31124-US-DIV	11/476760	2006/0245569	8233603	Expired
31124	31124-US-DIV2	11/748679	2007/0217437	8135410	Expired
31124	31124-US-PAT	09/593543		7305079	Expired
31124	31124-US-PAT1	09/593541		7162020	Granted
31124	31124-US-PAT2	09/879917	2002/0019246	8447352	Expired
31124	31124-US-PRV	60/185070			Converted
31124	31124-US-PRV1	60/139498			Converted
31124	31124-US-PRV2	60/211392			Converted
31126	31126-US-PAT	11/627187	2008/0182614	8611946	Granted
31127	31127-US-PAT	11/701550	2008/0188228	8081978	Granted
31130	31130-US-CNT	12/772623	2010/0241970	9177300	Granted
31130	31130-US-CNT[2]	14/923583	2016/0048303	9495086	Granted
31130	31130-US-CNT[3]	15/349417	2017/0060361	10037126	Granted
31130	31130-US-CNT[4]	16/050402	2019/0138167	11157141	Granted
31130	31130-US-CNT[5]	17/509533			Filing
31130	31130-US-PAT	11/495775	2008/0028322	7730404	Granted
31132	31132-US-PAT	11/832748	2008/0030464		Abandoned
31132	31132-US-PRV	60/821326			Converted
31133	31133-US-PAT	11/934129	2009/0115872		Abandoned
31136	31136-US-PAT	11/671014	2008/0189650		Abandoned
31137	31137-US-CNT	13/444252	2012/0196587	8577353	Granted
31137	31137-US-CNT[2]	14/043129	2014/0038584	9119053	Granted
31137	31137-US-PAT	11/624031	2008/0170690	8160494	Granted
31137-1	31137-1-US-CNT	12/952503	2011/0066864	8233895	Granted
31137-1	31137-1-US-CNT[2]	13/555584	2012/0281835	8630635	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31137-1	31137-1-US-PAT	11/624061	2008/0171578	7865212	Granted
31140	31140-US-CNT	13/549556	2012/0276842	8687645	Granted
31140	31140-US-PAT	11/610714	2008/0144754	8233898	Granted
31144	31144-US-CNT	12/603990	2010/0039639	7952702	Granted
31144	31144-US-PAT	11/463495	2008/0037011	7639353	Granted
31146	31146-US-CNT	13/350238	2012/0117643	8378782	Granted
31146	31146-US-PAT	11/608282	2008/0136587	8125312	Granted
31148	31148-US-CNT	13/558285	2012/0297195	8745395	Granted
31148	31148-US-PAT	11/464896	2008/0072048	8341411	Granted
31149	31149-US-CNT	12/814565	2010/0252629	8128002	Granted
31149	31149-US-CNT[2]	13/332707	2012/0091198		Abandoned
31149	31149-US-PAT	11/457162	2008/0011848	7735742	Granted
31150	31150-US-CIP	11/687331	2008/0022043	7766243	Granted
31150	31150-US-CNT	12/846931	2010/0288839	8047444	Granted
31150	31150-US-CNT[2]	13/007868	2011/0108624	8079530	Granted
31150	31150-US-CNT[3]	13/316642	2012/0080524	8240578	Granted
31150	31150-US-CNT[4]	13/565891	2012/0292393	8485449	Granted
31150	31150-US-CNT[5]	13/916825	2013/0270343	8944336	Granted
31150	31150-US-PAT	11/622250	2008/0017711	7871010	Granted
31151	31151-US-CNT	13/412784	2012/0254678	8434683	Granted
31151	31151-US-CNT[2]	13/865249	2013/0268815	8746562	Granted
31151	31151-US-PAT	11/465232	2008/0041951	8152066	Granted
31153	31153-US-PAT	11/464900	2008/0046739		Abandoned
31157	31157-US-CNT	13/470581	2012/0226968	8996975	Granted
31157	31157-US-PAT	12/040417	2009/0222715	8201075	Granted
31159	31159-US-CNT	12/706437	2010/0159839	8447336	Granted
31159	31159-US-PAT	11/457544	2008/0014874	7693104	Granted
31161	31161-US-PAT	11/627740	2008/0182615	8364199	Granted
31161	31161-US-PRV	60/821193			Converted
31169	31169-US-CNT	13/097436	2011/0206278	8542808	Granted
31169	31169-US-PAT	11/465512	2008/0014906	7949113	Granted
31169	31169-US-PRV	60/807395			Converted
31170	31170-US-CIP	11/840920	2008/0047004	8484722	Granted
31170	31170-US-PAT	11/465297	2008/0046827	8151201	Granted
31175	31175-US-DES	29/248108		D551236	Expired
31175	31175-US-PAT	11/460665	2008/0024449		Abandoned
31177	31177-US-CNT	12/470717	2009/0278490	7847514	Granted
31177	31177-US-CNT[2]	12/911793	2011/0037426	7986123	Granted
31177	31177-US-PAT	11/556547	2008/0106232	7554289	Granted
31180	31180-US-PAT	11/735013	2008/0255846		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31182	31182-US-CNT	13/325211	2012/0084587	8661272	Granted
31182	31182-US-CNT[2]	13/866592	2013/0238914	8954766	Granted
31182	31182-US-PAT	12/033284	2009/0210729	8090963	Granted
31197	31197-US-PAT	11/538964	2008/0085729	8155678	Granted
31198	31198-US-CNT	12/952419	2011/0063104	8179093	Granted
31198	31198-US-PAT	11/871396	2009/0096417	7863862	Granted
31204	31204-US-CNT	12/707050	2010/0210215	8391854	Granted
31204	31204-US-PAT	11/457552	2008/0014875	7693519	Granted
31207	31207-US-CNT	12/568803	2010/0014848	7970272	Granted
31207	31207-US-CNT[2]	13/110167	2011/0217032	8184969	Granted
31207	31207-US-PAT	11/501902	2008/0037979	7616882	Granted
31215	31215-US-PAT	11/671706	2008/0189793	8856859	Granted
31217	31217-US-PAT	11/516514	2008/0066086	8291004	Granted
31221	31221-US-CNT	12/410193	2009/0183093	7802192	Granted
31221	31221-US-CNT[2]	12/859073	2011/0010647	8745511	Granted
31221	31221-US-PAT	11/551773	2008/0098031	7536645	Granted
31225	31225-US-PAT	11/516495	2008/0064340	8290442	Granted
31227	31227-US-PAT	12/030994	2008/0201439	8880618	Granted
31227	31227-US-PRV	60/889967			Converted
31239	31239-US-CNT	12/984728	2011/0099241	8131812	Granted
31239	31239-US-CNT[2]	13/351837	2012/0117174	8433766	Granted
31239	31239-US-CNT[3]	13/856770	2013/0227044	8909721	Granted
31239	31239-US-PAT	11/619679	2008/0168173	7890589	Granted
31242	31242-US-CNT	12/772754	2010/0211816	8010551	Granted
31242	31242-US-PAT	11/548362	2008/0104138	7752174	Granted
31246	31246-US-CNT	12/842983	2010/0287533	8365146	Granted
31246	31246-US-CNT[2]	13/707466	2013/0103936	8893085	Granted
31246	31246-US-PAT	11/469109	2008/0126957	7797679	Granted
31249	31249-US-CNT	13/007068	2011/0171945	8457689	Granted
31249	31249-US-CNT[2]	13/872394	2013/0237292		Abandoned
31249	31249-US-PAT	11/469190	2008/0057999	7894848	Granted
31250	31250-US-CNT	13/855300	2013/0229923	8995941	Granted
31250	31250-US-PAT	11/552022	2008/0096501	8433312	Granted
31253	31253-US-CNT	13/962321	2013/0325990	9059947	Granted
31253	31253-US-PAT	11/739370	2008/0270560	8621024	Granted
31254	31254-US-CIP	11/469607	2007/0188471	7903087	Abandoned
31255	31255-US-PAT	11/625405	2008/0175192	8594717	Granted
31257	31257-US-CNT	13/051486	2011/0171927	8160543	Granted
31257	31257-US-CNT[2]	13/426054	2012/0178408	8254879	Granted
31257	31257-US-CNT[3]	13/560069	2012/0289184	8483655	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31257	31257-US-PAT	11/760120	2008/0305763	7933581	Granted
31259	31259-US-CNT	12/612076	2010/0045521	8648747	Granted
31259	31259-US-PAT	11/668068	2008/0180320	7633438	Granted
31261	31261-US-CNT	12/647124	2010/0159926	8036661	Granted
31261	31261-US-PAT	11/509570	2008/0051077	7668544	Granted
31262	31262-US-PAT	11/467352	2008/0051083	8457630	Granted
31266	31266-US-PAT	12/039854	2009/0219045	8390308	Granted
31268	31268-US-CNT	13/478296	2012/0233548	8635533	Granted
31268	31268-US-PAT	11/566769	2008/0134041	8209613	Granted
31271	31271-US-PAT	11/537732	2008/0082409	7987235	Granted
31272	31272-US-PAT	12/244354	2009/0279683		Abandoned
31272	31272-US-PRV	60/976852			Converted
31272-1	31272-1-US-PAT	12/389679	2010/0046731		Abandoned
31273	31273-US-DIV	13/426907	2012/0178425	8625576	Granted
31273	31273-US-PAT	11/875212	2008/0130554	8169899	Granted
31273	31273-US-PRV	60/852639			Converted
31273-1	31273-1-US-DIV	13/178936	2011/0263229	8195163	Granted
31273-1	31273-1-US-DIV[2]	13/444083	2012/0202474	8554218	Granted
31273-1	31273-1-US-PAT	11/875278	2008/0139210	8000712	Granted
31276	31276-US-CNT	13/617689	2013/0010758	9237509	Granted
31276	31276-US-PAT	11/549390	2008/0049741	8315162	Granted
31276	31276-US-PRV	60/823427			Converted
31279	31279-US-CNT	13/397805	2012/0150981		Abandoned
31279	31279-US-PAT	11/468931	2008/0055284	8146014	Granted
31282	31282-US-PAT	11/738590	2008/0261584		Abandoned
31283	31283-US-CNT	13/610944	2013/0005274	8543103	Granted
31283	31283-US-PAT	11/613769	2008/0151982	8301133	Granted
31285	31285-US-PAT	11/851499	2008/0065777	8583809	Granted
31285	31285-US-PRV	60/824820			Converted
31293	31293-US-PAT	11/549394	2008/0089303		Abandoned
31301	31301-US-CNT	12/938788	2011/0045871	8487868	Granted
31301	31301-US-PAT	11/469611	2008/0057941	7855714	Granted
31302	31302-US-PAT	11/466493	2008/0051109	7742441	Abandoned
31304	31304-US-PAT	11/841347	2008/0051116		Abandoned
31304	31304-US-PRV	60/823213			Converted
31304-1	31304-1-US-PAT	11/841173	2008/0051110		Abandoned
31304-2	31304-2-US-PAT	11/841182	2008/0051111		Abandoned
31304-3	31304-3-US-PAT	11/841192	2008/0051112		Abandoned
31304-4	31304-4-US-CNT	13/418156	2012/0172064	9125172	Granted
31304-4	31304-4-US-PAT	11/841323	2008/0051113	8155674	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31304-5	31304-5-US-PAT	11/841329	2008/0051114		Abandoned
31304-6	31304-6-US-PAT	11/841339	2008/0051115		Abandoned
31306	31306-US-CNT	12/974084	2011/0093804		Abandoned
31306	31306-US-PAT	11/556859	2008/0106516	7882451	Granted
31307	31307-US-CNT	12/827466	2010/0269031	8533585	Granted
31307	31307-US-PAT	11/538144	2008/0082938	7779346	Granted
31308	31308-US-PAT	12/058011	2009/0013387	8539553	Granted
31308	31308-US-PRV	60/909181			Converted
31311	31311-US-PAT	11/469991	2008/0057986	8244280	Granted
31312	31312-US-CNT	12/621866	2010/0097403	7865565	Granted
31312	31312-US-CNT[2]	12/956202	2011/0154175	8041771	Granted
31312	31312-US-CNT[3]	13/275251	2012/0036430	9237218	Granted
31312	31312-US-PAT	11/695203	2008/0242353		Abandoned
31319	31319-US-CNT	13/175664	2012/0003954	8315591	Granted
31319	31319-US-PAT	11/620320	2008/0166989	8041331	Granted
31321	31321-US-CNT	13/431219	2012/0190409	8449208	Granted
31321	31321-US-CNT[2]	13/865284	2013/0230345		Abandoned
31321	31321-US-PAT	11/861118	2008/0224899	8162552	Granted
31321	31321-US-PRV	60/826898			Converted
31322	31322-US-PAT	11/689594	2008/0231601		Abandoned
31325	31325-US-CNT	13/274905	2012/0038544	8451213	Granted
31325	31325-US-PAT	12/039836	2009/0219243	8063873	Granted
31328	31328-US-PAT	11/849567	2008/0057979	7925279	Granted
31328	31328-US-PRV	60/824547			Converted
31338	31338-US-PAT	11/554115	2008/0104269		Abandoned
31339	31339-US-PAT	11/849583	2008/0057980	8023969	Granted
31339	31339-US-PRV	60/824554			Converted
31341	31341-US-PAT	11/470844	2008/0065688		Abandoned
31345	31345-US-PAT	11/756171	2008/0301146		Abandoned
31346	31346-US-PAT	11/849602	2008/0057981	8078198	Granted
31346	31346-US-PRV	60/824569			Converted
31346-1	31346-1-US-PAT	11/850484	2008/0057984	7925280	Granted
31346-1	31346-1-US-PRV	60/842593			Converted
31347	31347-US-PAT	11/850137	2008/0070600	8938264	Granted
31347	31347-US-PRV	60/824561			Converted
31349	31349-US-PAT	12/013894	2009/0182552	9454516	Granted
31350	31350-US-CNT	13/306021	2012/0069985	8260362	Granted
31350	31350-US-CNT[2]	13/594101	2012/0322427	8532710	Granted
31350	31350-US-PAT	11/743914	2008/0056481	8095186	Granted
31350	31350-US-PRV	60/824431			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31351	31351-US-PAT	11/551284	2008/0094290	7369092	Abandoned
31351	31351-US-REI	12/930357			Abandoned
31356	31356-US-PAT	11/970808	2009/0176482		Abandoned
31358	31358-US-CNT	12/758965	2010/0199031	8010762	Granted
31358	31358-US-PAT	11/563271	2008/0126675	7730253	Granted
31362	31362-US-PAT	11/853198	2008/0064417	8065530	Granted
31362	31362-US-PRV	60/825197			Converted
31365	31365-US-PAT	11/853204	2008/0064418	8244281	Granted
31365	31365-US-PRV	60/825214			Converted
31372	31372-US-PAT	11/855371	2008/0070595	8660588	Granted
31372	31372-US-PRV	60/825808			Converted
31374	31374-US-CNT	13/225101	2011/0321112	8681629	Granted
31374	31374-US-PAT	11/611941	2008/0144501	8045469	Granted
31375	31375-US-CNT	13/570555	2012/0300763	8472978	Granted
31375	31375-US-PAT	11/876455	2008/0096580	8244241	Granted
31375	31375-US-PRV	60/862658			Converted
31378	31378-US-PAT	11/856426	2008/0070596	8577395	Granted
31378	31378-US-PRV	60/826025			Converted
31383	31383-US-CNT	13/351023	2012/0135733	8417242	Granted
31383	31383-US-PAT	12/508748	2011/0021195	8121633	Granted
31386	31386-US-CNT	13/169905	2011/0276701		Abandoned
31386	31386-US-PAT	11/679044	2008/0205413	7995562	Granted
31387	31387-US-CNT	13/348517	2012/0108288	8620325	Granted
31387	31387-US-CNT[2]	14/134923	2014/0105182	9210640	Granted
31387	31387-US-CNT[3]	14/960920	2016/0088505	9906972	Granted
31387	31387-US-PAT	11/924341	2008/0108352	8126454	Granted
31387	31387-US-PRV	60/863254			Converted
31392	31392-US-CNT	13/886046	2013/0242838		Abandoned
31392	31392-US-CNT[2]	15/823940	2018/0084491		Abandoned
31392	31392-US-PAT	11/877906	2009/0111466	8467785	Granted
31392	31392-US-PRV	60/862630			Converted
31394	31394-US-PAT	12/013682	2008/0170553	8619731	Granted
31394	31394-US-PRV	60/884923			Converted
31396	31396-US-CNT	13/295691	2012/0062386	8400404	Granted
31396	31396-US-CNT[2]	13/763571	2013/0162542	8730175	Granted
31396	31396-US-PAT	11/772672	2009/0009478	8081164	Granted
31400	31400-US-CNT	13/960199	2013/0322419	9538557	Granted
31400	31400-US-PAT	11/745608	2008/0281952	8533345	Granted
31402	31402-US-CNT	13/786242	2013/0185443	9363298	Granted
31402	31402-US-PAT	12/235929	2010/0075673	8417786	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31403	31403-US-PAT	12/270090	2010/0009676	8774805	Granted
31403	31403-US-PRV	61/079940			Converted
31404	31404-US-PAT	11/876428	2008/0147882	8719431	Granted
31404	31404-US-PRV	60/862995			Converted
31410	31410-US-CIP	12/621166	2010/0138754		Abandoned
31410	31410-US-CNT	12/917123	2011/0045854	8682394	Granted
31410	31410-US-CNT[2]	14/795156	2015/0312198	10951571	Granted
31410	31410-US-PAT	11/859614	2009/0082043	8265665	Granted
31413	31413-US-PAT	11/674800	2008/0194256	7796987	Granted
31414	31414-US-PAT	11/627211	2008/0171543	7856051	Granted
31414	31414-US-PRV	60/885151			Converted
31417	31417-US-PAT	11/767168	2008/0318617	8346294	Granted
31418	31418-US-CNT	13/047421	2011/0164602	8027678	Granted
31418	31418-US-CNT[2]	13/219873	2011/0310875		Abandoned
31418	31418-US-PAT	11/615215	2008/0151842	7957357	Granted
31422	31422-US-CNT	12/751376	2010/0188145	8008971	Granted
31422	31422-US-CNT[2]	13/204476	2012/0007670	8269554	Granted
31422	31422-US-CNT[3]	13/587386	2012/0313699	8362834	Granted
31422	31422-US-CNT[4]	13/724115	2013/0112467	8547171	Granted
31422	31422-US-CNT[5]	13/907542	2013/0257528	8723598	Granted
31422	31422-US-PAT	11/627115	2008/0180170	7724084	Granted
31423	31423-US-CNT	13/865765	2013/0246976	9417702	Granted
31423	31423-US-CNT[2]	15/235903	2016/0349988	10209883	Granted
31423	31423-US-PAT	11/960568	2009/0163193	8446371	Granted
31428	31428-US-CNT	13/891582			Abandoned
31428	31428-US-PAT	11/971472	2009/0174665	8462119	Granted
31434	31434-US-PAT	11/865807	2009/0088188	8145222	Granted
31437	31437-US-PAT	11/680066	2008/0207257	8218478	Granted
31440	31440-US-CNT	13/368512	2012/0134454	8391431	Granted
31440	31440-US-PAT	11/673045	2008/0192870	8126099	Granted
31444	31444-US-CNT	12/620018	2010/0060178	8040069	Granted
31444	31444-US-PAT	11/620755	2008/0164847	7633234	Granted
31445	31445-US-PAT	11/960563	2009/0160775		Abandoned
31454	31454-US-PAT	11/618109	2008/0163129	8635559	Granted
31467	31467-US-PAT	11/672174	2008/0189327		Abandoned
31487	31487-US-CNT	13/967035	2013/0332551		Abandoned
31487	31487-US-PAT	12/168570	2009/0144655	8539361	Granted
31487	31487-US-PRV	60/991894			Converted
31490	31490-US-CNT	12/794814	2010/0241986	8171421	Granted
31490	31490-US-CNT[2]	13/438018	2012/0192098	8434018	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31490	31490-US-PAT	11/700176	2008/0184290	7761807	Granted
31491	31491-US-PAT	11/670488	2008/0189159	9552571	Granted
31495	31495-US-PAT	11/760257	2008/0303795		Abandoned
31496	31496-US-PAT	12/463124	2009/0286542	8804657	Granted
31496	31496-US-PRV	61/052085			Converted
31497	31497-US-PAT	12/463136	2009/0298459		Abandoned
31497	31497-US-PRV	61/052140			Converted
31500	31500-US-PAT	11/962380	2009/0163204	8498638	Granted
31503	31503-US-PAT	12/463148	2009/0279569	8125994	Granted
31503	31503-US-PRV	61/052124			Converted
31511	31511-US-CNT	12/724717	2010/0172640	8009978	Granted
31511	31511-US-CNT[2]	13/187578	2011/0273588	8306412	Granted
31511	31511-US-CNT[3]	13/622567	2013/0016269	8693862	Granted
31511	31511-US-PAT	11/626994	2008/0181596	7702235	Granted
31514	31514-US-CNT	12/641801	2010/0100754	8316253	Granted
31514	31514-US-PAT	11/554168	2008/0104421	7661004	Granted
31515	31515-US-CNT	12/723059	2010/0165143	7978230	Granted
31515	31515-US-CNT[2]	13/151502	2011/0234846	8493469	Granted
31515	31515-US-PAT	11/626886	2008/0180545	7710466	Granted
31516	31516-US-PAT	11/627649	2008/0182628		Abandoned
31517	31517-US-CNT	12/903909	2011/0025600	8234794	Granted
31517	31517-US-CNT[2]	13/539570	2012/0268383	8493328	Granted
31517	31517-US-PAT	11/555002	2008/0100582	7830364	Granted
31518	31518-US-CIP	11/831509	2008/0114584	8069029	Granted
31518	31518-US-CNT	13/278375	2012/0041755	8290767	Granted
31518	31518-US-CNT[2]	13/615713	2013/0006606	8392172	Granted
31518	31518-US-CNT[3]	13/757928	2013/0144601	8548793	Granted
31518	31518-US-PAT	11/558628	2008/0114588	8069028	Granted
31519	31519-US-CNT	12/649922	2010/0103114	8005663	Granted
31519	31519-US-CNT[2]	13/175560	2011/0264445	8239187	Granted
31519	31519-US-CNT[3]	13/540398	2012/0271628	8452583	Granted
31519	31519-US-CNT[4]	13/872216	2013/0231915	8768688	Granted
31519	31519-US-PAT	11/558581	2008/0111708	7664632	Granted
31520	31520-US-CIP	11/831531	2008/0114585		Abandoned
31520	31520-US-PAT	11/558658	2008/0114586		Abandoned
31522	31522-US-CNT	12/958990	2011/0078111	9218434	Granted
31522	31522-US-CNT[2]	13/530753	2012/0265730	8856067	Granted
31522	31522-US-PAT	11/747257	2008/0281878	7870092	Granted
31523	31523-US-PAT	11/554273	2008/0127128		Abandoned
31529	31529-US-PAT	11/742814	2008/0195972		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31529	31529-US-PRV	60/888885			Converted
31532	31532-US-PAT	11/562528	2008/0119211	8707178	Granted
31533	31533-US-PAT	11/678754	2008/0208980		Abandoned
31534	31534-US-PCT	12/446316	2011/0065417	9537866	Granted
31534	31534-US-PRV	60/862337			Converted
31536	31536-US-CNT	13/570069	2012/0302203		Abandoned
31536	31536-US-PAT	11/876168	2008/0214143	8265589	Granted
31536	31536-US-PRV	60/862329			Converted
31541	31541-US-PAT	11/675970	2008/0102900	9098170	Granted
31541	31541-US-PRV	60/863674			Converted
31546	31546-US-CNT	12/871165	2011/0050704	8018473	Granted
31546	31546-US-PAT	11/554755	2008/0102887	7812852	Granted
31547	31547-US-CNT	13/612970	2013/0003710	8600358	Granted
31547	31547-US-PAT	11/743487	2008/0273489	8301120	Granted
31548	31548-US-CNT	13/196976	2011/0288856	8232968	Granted
31548	31548-US-CNT[2]	13/536246	2012/0274572	8493327	Granted
31548	31548-US-CNT[3]	13/921697	2013/0282364	8836665	Granted
31548	31548-US-PAT	11/554806	2008/0100581	8022934	Granted
31549	31549-US-CNT	13/471904	2012/0225702	8547254	Granted
31549	31549-US-CNT[2]	14/024752	2014/0024308	9160823	Granted
31549	31549-US-PAT	11/944708	2009/0135029	8199032	Granted
31550	31550-US-DIV	13/566315	2012/0294441	8798265	Granted
31550	31550-US-DIV[2]	13/690471	2013/0089200	8798266	Granted
31550	31550-US-PAT	12/394746	2010/0223461	8345866	Granted
31554	31554-US-PAT	11/615210	2008/0155460		Abandoned
31566	31566-US-PAT	11/626001	2008/0113665	8483764	Granted
31566	31566-US-PRV	60/865349			Converted
31567	31567-US-CNT	14/049313	2014/0045555	8781541	Granted
31567	31567-US-PAT	12/328946	2010/0142126	8583195	Granted
31570	31570-US-DIV	13/027823	2011/0238847	8874764	Granted
31570	31570-US-DIV[2]	13/027806	2011/0235624	8595365	Granted
31570	31570-US-DIV[3]	13/093099	2011/0238824		Abandoned
31570	31570-US-PAT	11/943332	2008/0181187		Abandoned
31570	31570-US-PRV	60/866753			Converted
31577	31577-US-CNT	12/834254	2010/0279620	8005434	Granted
31577	31577-US-CNT[2]	13/173444	2011/0256903	8160504	Granted
31577	31577-US-CNT[3]	13/424521		8380134	Granted
31577	31577-US-PAT	11/744427	2008/0113683	7756485	Granted
31577	31577-US-PRV	60/865562			Converted
31584	31584-US-PAT	11/687275	2008/0227483	9094529	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31588	31588-US-CIP	11/831546	2008/0114587	8667391	Granted
31588	31588-US-PAT	11/558672	2008/0115084	9329753	Granted
31597	31597-US-PAT	11/685912	2007/0229513	9099056	Granted
31598	31598-US-CNT	13/724518	2014/0015848	9153210	Granted
31598	31598-US-PAT	11/626598	2007/0229539	8363065	Granted
31599	31599-US-PAT	11/691257	2007/0242084		Abandoned
31600	31600-US-PAT	11/626520	2007/0229541	8525851	Granted
31601	31601-US-PAT	11/931173	2008/0200192	8014402	Granted
31601	31601-US-PRV	60/863896			Converted
31605	31605-US-CNT	13/610179	2013/0005338	8903392	Granted
31605	31605-US-PAT	11/681448	2008/0214191	8306534	Granted
31606	31606-US-CNT	13/436450	2012/0191743	8290940	Granted
31606	31606-US-CNT[2]	13/571277	2012/0303612		Abandoned
31606	31606-US-PAT	12/039842	2009/0222402	8185521	Granted
31607	31607-US-CNT	13/691987	2013/0095823	8630638	Granted
31607	31607-US-CNT[2]	14/153225	2014/0128061	8965361	Granted
31607	31607-US-PAT	12/014839	2009/0181651	8326285	Granted
31608	31608-US-PAT	12/785260	2011/0289136	8886709	Granted
31609	31609-US-CNT	12/854742	2010/0306697	8234588	Granted
31609	31609-US-PAT	11/618382	2008/0163116	7802201	Granted
31610	31610-US-CNT	13/706639	2013/0097676	8953799	Granted
31610	31610-US-PAT	12/552836	2011/0055546	8353050	Granted
31613	31613-US-PAT	11/693208	2007/0233379	8265863	Granted
31614	31614-US-CNT	13/036080	2011/0153048	8577420	Granted
31614	31614-US-PAT	11/679956	2008/0205205	7920901	Granted
31618	31618-US-PAT	11/690269	2008/0233887		Abandoned
31623	31623-US-PAT	11/556474	2008/0106525	7804488	Granted
31624	31624-US-CNT	12/974546	2011/0093197	8300984	Granted
31624	31624-US-CNT[2]	13/661700	2014/0120942	9037156	Granted
31624	31624-US-PAT	11/627554	2007/0229545	7881562	Granted
31627	31627-US-PAT	11/559923	2008/0114983	8418235	Granted
31629	31629-US-CNT	13/217360	2012/0221653	9002928	Granted
31629	31629-US-CNT[2]	14/670600	2015/0200888	9369414	Granted
31629	31629-US-CNT[3]	15/171882	2016/0277347	10356033	Granted
31629	31629-US-CNT[4]	16/511367	2019/0342253	11102159	Granted
31629	31629-US-CNT[5]	17/409533	2021/0392104		Publication of Application
31629	31629-US-PAT	12/339158	2010/0161753	8032611	Granted
31630	31630-US-CNT	14/031171	2014/0018104	9026150	Granted
31630	31630-US-PAT	11/950285	2009/0143079	8554243	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31633	31633-US-CNT	13/850688	2013/0208590	8797862	Granted
31633	31633-US-CNT[2]	14/300849	2014/0293781	9913204	Granted
31633	31633-US-CNT[3]	15/911604	2018/0199264	11129085	Granted
31633	31633-US-PAT	11/931632	2009/0109898	8433278	Granted
31636	31636-US-PAT	11/562698	2008/0118059		Abandoned
31639	31639-US-PAT	12/013554	2009/0179859		Abandoned
31647	31647-US-CNT	14/480696	2014/0380045	9686252	Granted
31647	31647-US-PAT	11/610621	2008/0148042	8856511	Granted
31653	31653-US-PAT	11/611969	2008/0148182	8612877	Granted
31661	31661-US-PAT	11/830121	2009/0037413		Abandoned
31668	31668-US-PAT	11/611952	2008/0146210		Abandoned
31672	31672-US-PAT	11/669404	2008/0184112	8601370	Granted
31673	31673-US-PAT	12/015778	2009/0187401		Abandoned
31676	31676-US-PAT	12/147907	2009/0322476	8698597	Granted
31678	31678-US-CNT	13/308135	2012/0093305	8886170	Granted
31678	31678-US-PAT	11/944452	2008/0132217	8090354	Granted
31678	31678-US-PRV	60/867124			Converted
31679	31679-US-CNT	13/004580	2011/0105160	8103252	Granted
31679	31679-US-CNT[2]	13/327431	2012/0129556	8315604	Granted
31679	31679-US-CNT[3]	13/655071	2013/0042187	9197445	Granted
31679	31679-US-CNT[4]	14/886450	2016/0036736	9800526	Granted
31679	31679-US-CNT[5]	15/718494	2018/0026921	10986048	Granted
31679	31679-US-PAT	11/764544	2008/0311935	7885641	Granted
31682	31682-US-PAT	11/956644	2009/0153371		Abandoned
31683	31683-US-PAT	11/668110	2008/0182598	8996045	Granted
31684	31684-US-CNT	13/187602	2011/0275390	8244459	Granted
31684	31684-US-PAT	11/627558	2007/0229311	7987045	Granted
31689	31689-US-CNT	14/332662	2014/0329549	9049554	Granted
31689	31689-US-PAT	12/013564	2009/0181650	8792916	Granted
31690	31690-US-CNT	13/912257	2013/0275040	8682579	Granted
31690	31690-US-CNT[2]	14/220217	2014/0207372	9074900	Granted
31690	31690-US-CNT[3]	14/746220	2015/0285640	9417077	Granted
31690	31690-US-CNT[4]	15/237215	2016/0356607	9857180	Granted
31690	31690-US-CNT[5]	15/848989	2018/0112989	10648819	Granted
31690	31690-US-PAT	11/936455	2009/0119009	8463424	Granted
31693	31693-US-PAT	12/238703	2010/0082235	8626430	Granted
31700	31700-US-CNT	15/130487	2016/0234381	9876904	Granted
31700	31700-US-PAT	11/837030	2008/0273677		Abandoned
31700	31700-US-PRV	60/915298			Converted
31702	31702-US-PAT	11/742610	2008/0274694		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31704	31704-US-CNT	13/610547	2013/0007246	9058622	Granted
31704	31704-US-PAT	11/734946	2008/0254769	8316141	Granted
31710	31710-US-PAT	12/023058	2008/0256202	8572185	Granted
31715	31715-US-PAT	12/101173	2008/0256179	9118506	Granted
31734	31734-US-CNT	15/154705	2016/0269892	9668123	Granted
31734	31734-US-CNT[2]	15/597292	2017/0251358	9967736	Granted
31734	31734-US-PAT	11/616918	2008/0158385	9344548	Granted
31738	31738-US-PAT	12/023079	2008/0256204	8407298	Granted
31744	31744-US-CIP	11/752619	2008/0254751	7881744	Granted
31744	31744-US-CNT	13/012213	2011/0117864	8244295	Granted
31744	31744-US-CNT[2]	13/556666	2012/0287830	8521220	Granted
31744	31744-US-PAT	11/733403	2008/0254785	8265617	Granted
31745	31745-US-PAT	11/654713	2008/0176586		Abandoned
31746	31746-US-PAT	11/654712	2008/0175176		Abandoned
31756	31756-US-PAT	12/042741	2008/0273682		Abandoned
31756	31756-US-PRV	60/927013			Converted
31757	31757-US-PAT	11/961374	2009/0006637	8868770	Granted
31757	31757-US-PRV	60/947235			Converted
31757-1	31757-1-US-PAT	11/961413	2009/0006638	8838818	Granted
31757-1	31757-1-US-PRV	60/947244			Converted
31761	31761-US-CNT	13/562572	2013/0196637	8688084	Granted
31761	31761-US-PAT	11/796915	2008/0268825	8265614	Granted
31761-1	31761-1-US-PAT	11/796827	2008/0268824	9706045	Granted
31761-2	31761-2-US-PAT	11/796804	2008/0267170		Abandoned
31763	31763-US-CNT	12/499143	2009/0273525	7990323	Granted
31763	31763-US-CNT[2]	13/189729	2011/0279328	8314738	Granted
31763	31763-US-CNT[3]	13/611601	2013/0002492		Abandoned
31763	31763-US-PAT	11/766339	2008/0316114	7573427	Granted
31772	31772-US-PAT	11/617961	2008/0163110	8621389	Granted
31774	31774-US-CNT	12/412975	2009/0187380	7930138	Granted
31774	31774-US-PAT	11/702668	2008/0186011	7526406	Granted
31776	31776-US-CNT	13/173010	2011/0263303	8548538	Granted
31776	31776-US-CNT[2]	14/041435	2014/0031094	8812064	Granted
31776	31776-US-PAT	11/693054	2008/0242378	7983722	Granted
31784	31784-US-CIP	12/551089	2009/0323905	8190183	Granted
31784	31784-US-CNT	13/095020	2011/0201366	8135376	Granted
31784	31784-US-PAT	12/039860	2009/0221321	7957717	Granted
31785	31785-US-PAT	12/428141	2010/0272243	9112999	Granted
31799	31799-US-PAT	11/874974	2009/0106677		Abandoned
31802	31802-US-CNT	13/285623	2012/0047171	8458365	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31802	31802-US-PAT	12/131318	2008/0301323	8073975	Granted
31802	31802-US-PRV	60/941514			Converted
31804	31804-US-CNT	12/562820	2010/0011125	7990291	Abandoned
31804	31804-US-CNT[2]	13/166331	2011/0251994	8766826	Abandoned
31804	31804-US-CNT[3]	14/319239	2014/0317068		Abandoned
31804	31804-US-PAT	12/131397	2008/0297379	7612695	Abandoned
31804	31804-US-PRV	60/941590			Converted
31805	31805-US-CNT	13/306472	2012/0072613	8451940	Granted
31805	31805-US-PAT	12/131407	2008/0298459	8090046	Granted
31805	31805-US-PRV	60/941613			Converted
31808	31808-US-CNT	12/700384	2010/0138628	8074044	Granted
31808	31808-US-PAT	11/681838	2008/0222380	7685396	Granted
31810	31810-US-CNT	13/535945	2012/0263392	8478059	Granted
31810	31810-US-PAT	11/875282	2009/0103825	8233727	Granted
31811	31811-US-CNT	13/278489	2012/0039542	8437560	Granted
31811	31811-US-CNT[2]	13/887692	2013/0243344	8737752	Granted
31811	31811-US-PAT	12/038905	2009/0220163	8045810	Granted
31817	31817-US-CNT	13/615405	2013/0007173	9148503	Granted
31817	31817-US-PAT	11/868309	2009/0093273	8311562	Granted
31825	31825-US-PAT	11/850964	2009/0066650	8674944	Granted
31826	31826-US-CNT	13/615250	2013/0005370		Abandoned
31826	31826-US-PAT	12/038466	2009/0215476	8320943	Granted
31829	31829-US-CNT	13/198852	2011/0287814	8620283	Granted
31829	31829-US-PAT	11/690525	2008/0234006	8000748	Granted
31834	31834-US-CNT	13/251400	2012/0026195	8712445	Granted
31834	31834-US-PAT	11/626605	2007/0229546	8032155	Granted
31836	31836-US-CNT	13/524024	20120254335	8738717	Granted
31836	31836-US-PAT	11/858461	2009/0083758	8230025	Granted
31837	31837-US-CNT	12/505216	2009/0277763	7977593	Granted
31837	31837-US-PAT	11/679981	2008/0202907	7582839	Granted
31839	31839-US-CNT	13/930329	2013/0290311		Abandoned
31839	31839-US-PAT	11/934251	2009/0119252	8504566	Granted
31843	31843-US-PAT	11/769773	2009/0006530	7809803	Granted
31859	31859-US-CNT	13/372957	2012/0140954	8798279	Granted
31859	31859-US-PAT	11/934404	2009/0116666	8144897	Granted
31860	31860-US-PAT	12/134462	2009/0005033	8135406	Granted
31860	31860-US-PRV	60/942724			Converted
31864	31864-US-CNT	13/862760	2013/0239202	9626501	Granted
31864	31864-US-PAT	12/019923	2009/0193514	8424079	Granted
31865	31865-US-CNT	13/873950	2013/0254528	8935526	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31865	31865-US-PAT	11/831285	2009/0034729	8452013	Granted
31866	31866-US-PAT	11/771560	2009/0003316	9379909	Granted
31870	31870-US-CNT	14/687616	2015/0282249	9642185	Granted
31870	31870-US-CNT[2]	15/470451	2017/0208541	10397857	Granted
31870	31870-US-CNT[3]	16/525046	2019/0357134	10728840	Granted
31870	31870-US-CNT[4]	16/903634	2020/0314653		Publication of Application
31870	31870-US-PAT	11/694141	2008/0242299	9026177	Granted
31871	31871-US-PAT	12/183220	2010/0031028		Abandoned
31872	31872-US-PAT	11/673871	2008/0195862		Abandoned
31878	31878-US-CNT	13/605913	2012/0328268	8885733	Granted
31878	31878-US-PAT	11/944549	2009/0135918	8279946	Granted
31879	31879-US-PAT	11/676639	2008/0198817	8570935	Granted
31880	31880-US-CNT	13/613007	2013/0036182	8949355	Granted
31880	31880-US-PAT	11/877745	2009/0112994	8307039	Granted
31881	31881-US-CNT	13/244870	2012/0014327	9720735	Granted
31881	31881-US-PAT	12/032145	2009/0207817	8825109	Granted
31886	31886-US-CNT	12/903732	2011/0025879	8325249	Granted
31886	31886-US-CNT[2]	13/692299	2013/0093918	8670041	Granted
31886	31886-US-PAT	11/626883	2008/0180544	7825958	Granted
31887	31887-US-PAT	11/691861	2008/0244709	8638676	Granted
31893	31893-US-PAT	12/024230	2009/0197621	8081992	Granted
31894	31894-US-PAT	12/572113	2011/0081888	9035744	Granted
31900	31900-US-PAT	11/621023	2008/0167035	8412192	Granted
31907	31907-US-PAT	11/678399	2008/0209074	8473637	Granted
31912	31912-US-PAT	11/833624	2009/0034472		Abandoned
31913	31913-US-PAT	12/117292	2012/0064873	8355721	Granted
31918	31918-US-PAT	11/683265	2008/0220773		Abandoned
31920	31920-US-CNT	13/224558	2011/0319101	8219122	Granted
31920	31920-US-CNT[2]	13/532592	2012/0276934	8364178	Granted
31920	31920-US-PAT	11/970921	2008/0167055	8023970	Granted
31920	31920-US-PRV	60/884369			Converted
31922	31922-US-PAT	11/738081	2008/0261655	7899939	Granted
31923	31923-US-CNT	12/750756	2010/0185786	7986970	Granted
31923	31923-US-CNT[2]	13/162865	2011/0258390	8442587	Granted
31923	31923-US-PAT	11/625892	2008/0176600	7725131	Granted
31928	31928-US-CNT	13/186157	2012/0016931	8291081	Granted
31928	31928-US-CNT[2]	13/615748	2013/0013673		Abandoned
31928	31928-US-CNT[3]	14/686101	2015/0264151	9967359	Granted
31928	31928-US-PAT	11/017931	2005/0138176	8010670	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31928	31928-US-PRV	60/531615			Converted
31929	31929-US-CNT	12/774313	2010/0272373	7978923	Granted
31929	31929-US-CNT[2]	13/166951	2012/0014615	8374449	Granted
31929	31929-US-CNT[3]	13/615702	2013/0028533	8542940	Granted
31929	31929-US-CNT[4]	14/302876	2014/0294315	9042671	Granted
31929	31929-US-DIV	13/950326	2013/0336595	8768087	Granted
31929	31929-US-DIV[2]	12/491764	2009/0317012	8194990	Granted
31929	31929-US-DIV[3]	13/473738	2012/0224780	8509557	Granted
31929	31929-US-PAT	11/180513	2006/0013493	7742643	Granted
31929	31929-US-PAT2	10/924189	2006/0013497	7570827	Granted
31929	31929-US-PRV	60/587555			Converted
31929	31929-US-PRV2	60/588380			Converted
31930	31930-US-CNT	12/607582	2010/0049850	9225803	Granted
31930	31930-US-PAT	11/313771	2006/0155869	7634572	Granted
31930	31930-US-PRV	60/637767			Converted
31931	31931-US-CNT	13/072212	2011/0170771	8106919	Granted
31931	31931-US-CNT[2]	13/194376	2011/0279474	8253757	Granted
31931	31931-US-CNT[3]	13/563020	2012/0301022	8379044	Granted
31931	31931-US-DIV	12/404417	2009/0232394	8022963	Granted
31931	31931-US-PAT	10/831656	2005/0237951	7525552	Granted
31931	31931-US-PRV	60/564033			Converted
31932	31932-US-PAT	11/535765	2007/0294333	8775662	Granted
31932	31932-US-PRV	60/720487			Converted
31933	31933-US-PAT	10/438357	2004/0008130	6801141	Granted
31933	31933-US-PRV	60/395481			Converted
31934	31934-US-CNT[2]	13/023135	2011/0123110	8265408	Granted
31934	31934-US-CNT[3]	13/186857	2012/0039530	8260071	Granted
31934	31934-US-CNT[4]	13/559854	2012/0308129	8503807	Granted
31934	31934-US-CNT[5]	13/565967	2012/0321183	8559740	Granted
31934	31934-US-PAT	11/534956	2007/0071339	8000547	Granted
31934	31934-US-PAT2	11/534942	2007/0076968	7903893	Granted
31934	31934-US-PRV	60/719585			Converted
31936	31936-US-CNT	13/332757	2012/0087362	8666400	Granted
31936	31936-US-PAT	11/684276	2008/0220772	8107954	Granted
31937	31937-US-PAT	12/637046	2011/0143715	8385888	Granted
31940	31940-US-PAT	12/028142	2009/0203398	8295897	Granted
31942	31942-US-PAT	12/390832	2010/0217793	8364163	Granted
31945	31945-US-PAT	12/117388	2008/0282222		Abandoned
31945	31945-US-PRV	60/916613			Converted
31945-1	31945-1-US-PAT	12/117395	2008/0282223	8219970	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
31949	31949-US-PAT	12/038859	2009/0222471	8200713	Granted
31951	31951-US-PAT	11/734891	2008/0256196	8250153	Granted
31951	31951-US-PAT2	11/734865	2008/0256193		Abandoned
31953	31953-US-PAT	12/036074	2009/0213556	8154883	Granted
31955	31955-US-CNT	12/915546	2011/0038448	8670495	Granted
31955	31955-US-PAT	11/671284	2008/0187076	7826574	Granted
31956	31956-US-PAT	11/734966	2008/0256198	8510390	Granted
31956	31956-US-PAT2	11/734876	2008/0256195	8463856	Granted
31966	31966-US-PAT	11/688043	2008/0231530	7773040	Granted
31967	31967-US-PAT	11/688052	2008/0231532	7777684	Granted
31968	31968-US-CNT	13/422061	2012/0179954	8848806	Granted
31968	31968-US-CNT[2]	14/499846	2015/0019939	9542253	Granted
31968	31968-US-PAT	11/689548	2008/0235554	8165224	Granted
31969	31969-US-PAT	11/832180	2009/0036148	8983500	Granted
31970	31970-US-PAT	12/631019	2011/0136549		Abandoned
31972	31972-US-CNT	13/425644	2012/0178420	9167432	Granted
31972	31972-US-PAT	12/113977	2009/0273435	8149085	Granted
31976	31976-US-PAT	12/019882	2008/0182595		Abandoned
31976	31976-US-PRV	60/886841			Converted
31978	31978-US-PAT	11/690427	2008/0231531	7629932	Granted
31979	31979-US-PAT	11/671237	2008/0186953	8073447	Granted
31980	31980-US-PAT	11/691172	2008/0242289	8478345	Granted
31983	31983-US-CNT	13/908017	2013/0267279	8744531	Granted
31983	31983-US-PAT	11/691187	2008/0242356	8463325	Granted
31985	31985-US-PAT	11/693768	2008/0243525	8701101	Granted
31989	31989-US-PAT	12/200990	2010/0058053	8646105	Granted
31994	31994-US-PAT	11/741810	2008/0267146	8670422	Granted
32000	32000-US-CNT	13/572933	2013/0212570		Abandoned
32000	32000-US-PAT	11/836165	2009/0044182	8271969	Granted
32004	32004-US-PAT	12/024236	2008/0188248	8577396	Granted
32004	32004-US-PRV	60/887757			Converted
32005	32005-US-PAT	11/773415	2009/0011806	8639302	Granted
32006	32006-US-PAT	12/394075	2010/0220887	8483422	Granted
32013	32013-US-CNT	14/594683	2015/0126163	9485340	Granted
32013	32013-US-PAT	11/694072	2008/0242270	8934873	Granted
32015	32015-US-CNT	12/852551	2010/0297988		Abandoned
32015	32015-US-CNT[2]	14/806774	2016/0021232		Abandoned
32015	32015-US-PAT	11/691051	2008/0242282	7860489	Granted
32018	32018-US-PAT	12/393446	2009/0279679		Abandoned
32018	32018-US-PRV	61/052270			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32021	32021-US-PAT	11/753378	2008/0293407		Abandoned
32024	32024-US-CNT	13/273511	2012/0036361	8260273	Granted
32024	32024-US-CNT[2]	13/565340	2012/0295607	8457609	Granted
32024	32024-US-PAT	12/128755	2009/0298478	8041346	Granted
32024-1	32024-1-US-CNT	12/957725	2011/0078120	9043282	Granted
32024-1	32024-1-US-PAT	12/128693	2009/0300137	7865573	Granted
32024-2	32024-2-US-PAT	12/128669	2009/0300596	8418168	Granted
32028	32028-US-CNT	14/047125	2014/0036733	9049074	Granted
32028	32028-US-PAT	12/036562	2008/0205616	8582743	Granted
32028	32028-US-PRV	60/891780			Converted
32029	32029-US-CNT	12/969946	2011/0086629	8473011	Granted
32029	32029-US-PAT	11/848876	2009/0061944	7877116	Granted
32040	32040-US-PAT	11/839670	2009/0049554	9092638	Granted
32056	32056-US-PAT	12/040025	2009/0221322	9467557	Granted
32056-1	32056-1-US-CNT	13/556373	2012/0289260	8818383	Granted
32056-1	32056-1-US-CNT[2]	14/287539	2014/0274072	9232455	Granted
32056-1	32056-1-US-CNT[3]	14/972355	2016/0105547	9596345	Granted
32056-1	32056-1-US-PAT	12/040039	2009/0221323	8249603	Granted
32056-2	32056-2-US-CNT	13/438373	2012/0190348		Abandoned
32056-2	32056-2-US-PAT	12/040045	2009/0221291	8185150	Abandoned
32056-3	32056-3-US-CNT	13/586198	2012/0309370	8583126	Granted
32056-3	32056-3-US-PAT	12/040057	2009/0221268	8270983	Granted
32058	32058-US-CNT	13/232042	2012/0003968	8260293	Granted
32058	32058-US-PAT	12/015309	2009/0181660	8032138	Granted
32062	32062-US-CNT	13/716467	2013/0104196	8839370	Granted
32062	32062-US-PAT	11/687243	2008/0229389	8347354	Granted
32063	32063-US-PAT	11/773913	2009/0011747	10210340	Granted
32064	32064-US-PAT	12/210710	2010/0066311	8519671	Granted
32065	32065-US-DIV	13/050280	2011/0167137	8407320	Granted
32065	32065-US-PAT	11/678633	2008/0209061		Abandoned
32067	32067-US-CNT	13/911874	2013/0273903	8818429	Granted
32067	32067-US-PAT	11/676642	2008/0198818	8462693	Granted
32070	32070-US-PAT	12/032095	2008/0200208	8700090	Granted
32070	32070-US-PRV	60/890385			Converted
32085	32085-US-PAT	12/039774	2009/0221276		Abandoned
32087	32087-US-PAT	11/734986	2008/0253668	8457419	Granted
32088	32088-US-PAT	11/737878	2008/0258989	7598913	Granted
32089	32089-US-PAT	11/680725	2008/0215744	8560724	Granted
32090	32090-US-CNT	12/815701	2010/0255787	8364088	Granted
32090	32090-US-CNT[2]	13/749875	2013/0137375	8676130	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32090	32090-US-CNT[3]	14/167164	2014/0149873		Abandoned
32090	32090-US-CNT[4]	16/409109	2019/0286297		Abandoned
32090	32090-US-PAT	11/693385	2008/0242220	7747223	Granted
32091	32091-US-CNT	13/974556	2013/0342447	8810541	Granted
32091	32091-US-PAT	12/391348	2010/0214211	8547326	Granted
32092	32092-US-DES	29/279205		D586817	Granted
32092	32092-US-PAT	11/738944	2008/0074393		Abandoned
32092	32092-US-PRV	60/893103			Converted
32092	32092-US-PRV2	60/893101			Converted
32094	32094-US-PAT	11/866467	2009/0094333		Abandoned
32096	32096-US-DES	29/279207		D562332	Granted
32096	32096-US-PAT	11/738981	2008/0074394	9256295	Granted
32099	32099-US-PAT	11/692235	2008/0243276	8789052	Granted
32105	32105-US-CNT	13/528093	2012/0275586	8666038	Granted
32105	32105-US-PAT	11/870268	2009/0097633	8229084	Granted
32107	32107-US-CNT	13/652564	2013/0104031	9448974	Granted
32107	32107-US-PAT	11/755781	2008/0300850	8316358	Granted
32110	32110-US-CNT	13/789622	2013/0189995	9237548	Granted
32110	32110-US-PAT	11/740381	2008/0268816	8396470	Granted
32111	32111-US-CNT	12/790940	2010/0230492	8201749	Granted
32111	32111-US-CNT[2]	13/469274	2012/0235798	8640966	Granted
32111	32111-US-PAT	11/688935	2008/0230609	7726568	Granted
32113	32113-US-PAT	11/694295	2008/0244387		Abandoned
32113-1	32113-1-US-PAT	11/694384	2008/0244389	9092418	Granted
32114	32114-US-PAT	11/694361	2008/0244388		Abandoned
32117	32117-US-PAT	11/852657	2009/0066651	8780046	Granted
32120	32120-US-PAT	11/738999	2008/0074395		Abandoned
32126	32126-US-PAT	12/040122	2009/0222903	8341715	Granted
32132	32132-US-CNT	13/489037	2012/0246482	8578170	Granted
32132	32132-US-PAT	12/115799	2009/0282255	8214646	Granted
32133	32133-US-CNT	13/935645	2015/0009234	9159150	Granted
32133	32133-US-PAT	11/837172	2008/0268822	8483947	Granted
32133	32133-US-PRV	60/913940			Converted
32133	32133-US-PRV2	60/913958			Converted
32133	32133-US-PRV3	60/913966			Converted
32134	32134-US-CNT	13/401700	2012/0166595	8793387	Granted
32134	32134-US-PAT	11/835595	2009/0043865	8145766	Granted
32135	32135-US-PAT	11/697432	2008/0248747		Abandoned
32139	32139-US-CNT	13/412724	2013/0063626	8681246	Granted
32139	32139-US-PAT	11/695074	2008/0239103	8154625	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32141	32141-US-PAT	11/693832	2008/0244469		Abandoned
32144	32144-US-PAT	12/039818	2008/0301290		Abandoned
32144	32144-US-PRV	60/941502			Converted
32145	32145-US-CNT	13/277434	2012/0033808	8379849	Granted
32145	32145-US-PAT	12/039998	2008/0219438	8050403	Granted
32145	32145-US-PRV	60/893297			Converted
32146	32146-US-PAT	12/042654	2009/0228715		Abandoned
32148	32148-US-PAT	11/697349	2008/0246678	7705783	Granted
32154	32154-US-CNT	13/053553	2011/0169981	8199218	Granted
32154	32154-US-PAT	11/695171	2008/0239095	7936379	Granted
32159	32159-US-CNT	13/534558	2012/0275594	8615080	Granted
32159	32159-US-PAT	12/039996	2008/0219437	8243919	Granted
32159	32159-US-PRV	60/893498			Converted
32161	32161-US-CNT	13/354710	2012/0114117	8379844	Granted
32161	32161-US-PAT	12/040004	2008/0219450	8160245	Granted
32161	32161-US-PRV	60/893507			Converted
32162	32162-US-PAT	12/040177	2008/0273694	8391479	Granted
32162	32162-US-PRV	60/893510			Converted
32163	32163-US-PAT	12/040231	2008/0275932		Abandoned
32163	32163-US-PRV	60/893515			Converted
32164	32164-US-CNT	13/222104	2011/0314292	8331557	Granted
32164	32164-US-CNT[2]	13/615854	2013/0016830	8660263	Granted
32164	32164-US-PAT	12/040196	2008/0301458	8027466	Granted
32164	32164-US-PRV	60/893522			Converted
32165	32165-US-CNT	13/489690	2012/0254620	8645703	Granted
32165	32165-US-PAT	12/040212	2008/0301459	8219820	Granted
32165	32165-US-PRV	60/893526			Converted
32179	32179-US-CNT	13/589410	2013/0031218	10560597	Granted
32179	32179-US-CNT[2]	14/885430	2016/0037016		Publication of Application
32179	32179-US-PAT	11/754749	2008/0299997	8265686	Granted
32180	32180-US-CNT	13/272381	2012/0032986	8873885	Granted
32180	32180-US-PAT	11/754769	2008/0298720	8068698	Granted
32182	32182-US-CNT	13/083791	2011/0276606	9203949	Granted
32182	32182-US-CNT[2]	13/590398	2012/0315933		Abandoned
32182	32182-US-PAT	11/754796	2008/0301180	7941467	Granted
32183	32183-US-CNT	13/592192		RE44666	Granted
32183	32183-US-CNT[2]	14/139239			Abandoned
32183	32183-US-PAT	11/742713	2008/0273620	7860465	Reissued (Inactive Parent)
32183	32183-US-REI	13/314808		RE44021	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32184	32184-US-CNT	12/779692	2010/0223263	7882145	Granted
32184	32184-US-PAT	11/690329	2009/0037438	7743075	Granted
32185	32185-US-CNT	15/212446	2016/0330639	9941997	Granted
32185	32185-US-PAT	11/741590	2008/0267302	9413489	Granted
32188	32188-US-CNT	14/329169	2014/0321774	9183229	Granted
32188	32188-US-PAT	11/754830	2008/0297409	8803980	Granted
32214	32214-US-CNT	13/589465	2013/0012172	8588754	Granted
32214	32214-US-PAT	12/388634	2010/0210249	8315609	Granted
32215	32215-US-PAT	12/013933	2009/0182501	7890257	Granted
32219	32219-US-CNT	13/477329	2012/0230485	8488763	Granted
32219	32219-US-CNT[2]	13/920697	2013/0287197	8948363	Granted
32219	32219-US-PAT	12/394408	2010/0220847	8204197	Granted
32220	32220-US-PAT	12/389829	2010/0228780	9332121	Granted
32222	32222-US-CNT	13/734172	2013/0124620	8799442	Granted
32222	32222-US-PAT	12/117006	2008/0281956	8370471	Granted
32222	32222-US-PRV	60/917233			Converted
32238	32238-US-PAT	11/735589	2008/0252550	7511670	Granted
32239	32239-US-PAT	11/735580	2008/0252529	7508346	Granted
32241	32241-US-CNT	13/108860	2011/0219253	8332677	Granted
32241	32241-US-CNT[2]	13/686580	2013/0086406	8886983	Granted
32241	32241-US-PAT	11/777092	2009/0019300	7945797	Granted
32242	32242-US-PAT	11/762858	2008/0310448	8488628	Granted
32248	32248-US-CNT	13/234676	2012/0009928	8711809	Abandoned
32248	32248-US-PAT	11/741581	2008/0268845	8023467	Abandoned
32249	32249-US-CNT	13/782304	2013/0178209	8768354	Granted
32249	32249-US-PAT	12/357771	2010/0184433	8412189	Granted
32251	32251-US-PAT	12/122008	2009/0287470	8620641	Granted
32255	32255-US-CNT	12/685106	2010/0108482	8008590	Granted
32255	32255-US-PAT	11/926464	2009/0107816	7671290	Granted
32262	32262-US-CNT	13/468497	2012/0219172	8577071	Granted
32262	32262-US-PAT	12/609317	2011/0103631	8213664	Granted
32266	32266-US-CNT	13/244714	20120014341	8204508	Granted
32266	32266-US-CNT[2]	13/244733	2012/0026957	8213930	Granted
32266	32266-US-CNT[3]	13/484147	2012/0236808	8472397	Granted
32266	32266-US-PAT	11/741562	2008/0267118	8064390	Granted
32272	32272-US-PAT	11/744032	2008/0273468	8705437	Granted
32278	32278-US-PAT	11/739040	2008/0074392		Abandoned
32281	32281-US-PAT	12/023067	2008/0256203	8626841	Granted
32286	32286-US-CNT	13/867265	2013/0230023	9167502	Granted
32286	32286-US-CNT[2]	14/849961	2015/0382280	9479996	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32286	32286-US-PAT	12/027455	2009/0203375	8447303	Granted
32288	32288-US-PAT	12/183383	2010/0030821		Abandoned
32289	32289-US-CNT	13/536428	2012/0269336	8687788	Granted
32289	32289-US-CNT[2]	14/858216	2016/0014268	10154132	Granted
32289	32289-US-PAT	12/109657	2008/0267384		Abandoned
32289	32289-US-PRV	60/914407			Converted
32290	32290-US-PAT	11/750758	2008/0287091	7756506	Abandoned
32294	32294-US-CNT	13/349446	2012/0113885	8279793	Granted
32294	32294-US-PAT	11/741362	2008/0268854	8130687	Granted
32296	32296-US-PAT	12/105115	2009/0265384	8090718	Granted
32302	32302-US-CNT	13/450349	2012/0201395	8718287	Granted
32302	32302-US-PAT	12/394218	2010/0220865	8189798	Granted
32304	32304-US-CNT	13/759112	2013/0172054	8909301	Granted
32304	32304-US-PAT	12/126034	2009/0290697	8396514	Granted
32306	32306-US-CNT	12/901184	2011/0025478	8018795	Granted
32306	32306-US-CNT[2]	13/186103	20110273281	8331199	Granted
32306	32306-US-PAT	12/030534	2009/0201768	7839723	Granted
32308	32308-US-CNT	13/924070	2013/0283049	9053330	Granted
32308	32308-US-CNT[2]	14/713010	2015/0248562	9594916	Granted
32308	32308-US-PAT	11/763476	2008/0310633	8484464	Granted
32313	32313-US-CNT	13/276422	2012/0032890	8289277	Granted
32313	32313-US-CNT[2]	13/616264	2013/0002564	8553007	Granted
32313	32313-US-PAT	11/961249	2009/0160761	8063879	Granted
32314	32314-US-CNT	12/899280	2011/0019777	8094757	Granted
32314	32314-US-PAT	11/749874	2008/0285687	7817752	Granted
32320	32320-US-PAT	11/769443	2009/0006562	8019820	Granted
32321	32321-US-PAT	11/769495	2009/0003358	8559446	Granted
32322	32322-US-PCT	12/302602	2009/0186663	8185169	Granted
32325	32325-US-PAT	11/746270	2008/0282177	8667384	Granted
32326	32326-US-CNT	13/252807	2012/0023436	8279173	Granted
32326	32326-US-CNT[2]	13/610362	2013/0007664	9003330	Granted
32326	32326-US-PAT	11/746285	2008/0278438	8031170	Granted
32327	32327-US-CNT	13/330465	2012/0143502	8315800	Granted
32327	32327-US-CNT[2]	13/665051	2013/0053074	8620583	Granted
32327	32327-US-CNT[3]	14/142918	2014/0114570	9055402	Granted
32327	32327-US-CNT[4]	14/733518	2015/0271644	9503859	Granted
32327	32327-US-CNT[5]	15/357825	2017/0070851	10038969	Granted
32327	32327-US-CNT[6]	16/049339	2018/0343537	10812938	Granted
32327	32327-US-CNT[7]	17/017875	2020/0413225		Publication of Application

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32327	32327-US-PAT	11/923940	2009/0112457	8086398	Granted
32328	32328-US-PAT	12/098939	2009/0251854	7715191	Granted
32330	32330-US-PAT	12/059517	2009/0244011	8154520	Granted
32333	32333-US-PAT	11/842344	2009/0052555	8913670	Granted
32338	32338-US-PAT	12/049094	2009/0231282		Abandoned
32338	32338-US-PAT2	12/049023			Abandoned
32343	32343-US-PAT	12/023131	2008/0311871	7873339	Granted
32343	32343-US-PRV	60/944250			Converted
32349	32349-US-CNT	14/559711	2015/0085814	9467979	Granted
32349	32349-US-CNT[2]	15/262892	2016/0381634	9854522	Granted
32349	32349-US-CNT[3]	15/820096	2018/0146427	10349349	Granted
32349	32349-US-PAT	11/958547	2008/0310355	8964650	Granted
32349	32349-US-PRV	60/944383			Converted
32350	32350-US-CNT	12/837881	2010/0284677	8059192	Granted
32350	32350-US-CNT[2]	13/251740	2012/0026389	8384823	Granted
32350	32350-US-PAT	11/863718	2009/0085502	7777809	Granted
32351	32351-US-PAT	12/126974	2008-0299958	8160559	Granted
32351	32351-US-PRV	60/941322			Converted
32351-1	32351-1-US-PAT	12/126977	2008/0299980	8165573	Granted
32351-1	32351-1-US-PRV	60/942949			Converted
32351-2	32351-2-US-PAT	12/126979	2008-0298351	8340017	Granted
32351-2	32351-2-US-PRV	60/943115			Converted
32352	32352-US-CNT	14/514245			Abandoned
32352	32352-US-PAT	11/966159	2009/0172604	8663037	Granted
32354	32354-US-PAT	11/778694	2009/0022103	8588174	Granted
32355	32355-US-PAT	12/856463	2012/0040669	8521160	Granted
32356	32356-US-PAT	12/039791	2009/0003325	9270707	Granted
32356	32356-US-PRV	60/947076			Converted
32367	32367-US-PAT	12/180508	2010/0022267	8626233	Granted
32368	32368-US-PAT	11/863877	2009/0085777	8836546	Granted
32370	32370-US-PAT	12/013906	2009/0182500	9354068	Granted
32372	32372-US-CNT	13/338568	2012/0100875	8639272	Granted
32372	32372-US-CNT[2]	14/163349	2014/0141758	9008635	Granted
32372	32372-US-PAT	12/015022	2009/0181699	8090389	Granted
32374	32374-US-CNT	12/912363	2011/0038292	8867419	Granted
32374	32374-US-CNT[2]	14/499631	2015/0049659	9894609	Granted
32374	32374-US-CNT[3]	15/418895	2017/0142657	9749956	Granted
32374	32374-US-CNT[4]	15/687953	2018/0049128	10264527	Granted
32374	32374-US-PAT	11/768308	2009/0003252	7848271	Granted
32380	32380-US-PAT	12/331758	2010/0144312	9380167	Granted

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32381	32381-US-PAT	11/848867	2009/0058814	8773358	Granted
32384	32384-US-PAT	11/767019	2008/0317052	7715342	Granted
32386	32386-US-PAT	12/394229	2010/0220850	9413882	Granted
32387	32387-US-CNT	13/155584	2011/0235932	8233732	Granted
32387	32387-US-CNT[2]	13/534051	2012/0263375	8687905	Granted
32387	32387-US-PAT	12/133095	2008/0298701	7978934	Granted
32387	32387-US-PRV	60/941794			Converted
32388	32388-US-CNT	13/311781	2012/0093428	8792742	Granted
32388	32388-US-PAT	12/133071	2008/0298699	8094956	Granted
32388	32388-US-PRV	60/941803			Converted
32389	32389-US-CNT	13/167880	2011/0249722	8233703	Granted
32389	32389-US-CNT[2]	13/532827	2012/0328183	8903168	Granted
32389	32389-US-PAT	12/133083	2008/0298700	7995850	Granted
32389	32389-US-PRV	60/941809			Converted
32390	32390-US-PAT	12/026381	2009/0195499	8294670	Granted
32392	32392-US-CNT	13/184247	2012/0008607	8649361	Granted
32392	32392-US-PAT	11/769830	2009/0003278	8005061	Granted
32394	32394-US-CNT	16/241325	2019/0155897		Publication of Application
32394	32394-US-PAT	12/394873	2010/0223547	10176162	Granted
32395	32395-US-CNT	13/669088	2013/0058586	8532417	Granted
32395	32395-US-PAT	12/394144	2010/0220937	8326067	Granted
32398	32398-US-CNT	13/452579	2012/0208511	8892083	Granted
32398	32398-US-PAT	12/395476	2010/0222047	8185097	Granted
32400	32400-US-PAT	11/843802	2009/0051595	7719470	Granted
32403	32403-US-PAT	11/763530	2008/0311950	9425988	Granted
32404	32404-US-PAT	11/763535	2008/0311886	9277033	Granted
32410	32410-US-CNT	13/617363	2013/0008946	8496175	Granted
32410	32410-US-DIV	13/293669	2012/0118951	8292189	Granted
32410	32410-US-PAT	12/163214	2009/0001160	8091785	Granted
32410	32410-US-PRV	60/946590			Converted
32413	32413-US-CNT	13/849875	2013/0223375	9277489	Granted
32413	32413-US-CNT[2]	15/055977	2016/0205620	9730150	Granted
32413	32413-US-PAT	12/643061	2011/0149874	8411604	Granted
32425	32425-US-CNT	13/457085	2012/0207289	8571186	Granted
32425	32425-US-PAT	12/504735	2011/0013753	8189745	Granted
32428	32428-US-PAT	12/135376	2009/0303022	7924143	Granted
32429	32429-US-PAT	11/944482	2009/0135156		Abandoned
32430	32430-US-PAT	12/030552	2009/0201258		Abandoned
32434	32434-US-PAT	12/621575	2011/0115710	8581850	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32438	32438-US-PAT	12/056868	2009/0244026		Abandoned
32465	32465-US-PAT	12/392231	2010/0214878	8295126	Granted
32473	32473-US-CNT	13/249762	2012/0084204	9390413	Granted
32473	32473-US-PAT	12/116171	2009/0233579	8060413	Granted
32473	32473-US-PRV	61/036593			Converted
32477	32477-US-PAT	12/770956	2010/0278162	8842680	Granted
32477	32477-US-PRV	61/174157			Converted
32498	32498-US-CNT	13/586277	2012/0317190	9003487	Granted
32498	32498-US-PAT	12/196900	2010/0050187	8272034	Granted
32500	32500-US-PAT	12/017470	2009/0187676	8099526	Granted
32505	32505-US-PAT	11/848850	2009/0063962	9043700	Granted
32505-1	32505-1-US-CNT	13/225956	2011/0316787	8866746	Granted
32505-1	32505-1-US-PAT	11/848827	2009/0058813	8035618	Granted
32511	32511-US-PAT	11/934204	2009/0115733	8217903	Granted
32512	32512-US-PAT	11/953298	2009/0146970		Abandoned
32513	32513-US-CNT	14/056910	2014/0047519	9141782	Granted
32513	32513-US-PAT	12/393905	2010/0218241	8590022	Granted
32515	32515-US-PAT	11/843825	2009/0051596	7629933	Granted
32519	32519-US-PAT	11/843840	2009/0051615	7714795	Granted
32521	32521-US-CNT	13/108639	2011/0302342	8244920	Granted
32521	32521-US-CNT[2]	13/558675	2012/0297093	8458382	Granted
32521	32521-US-PAT	11/777680	2009/0014519	7945704	Granted
32525	32525-US-CNT	13/041797	2011/0157021	8462120	Granted
32525	32525-US-CNT[2]	13/865553	2013/0229355	8638299	Granted
32525	32525-US-PAT	11/782172	2009/0027345	7936337	Granted
32526	32526-US-CNT	13/088543	2011/0197127	8296128	Granted
32526	32526-US-CNT[2]	13/549704	2012/0284018	8452584	Granted
32526	32526-US-CNT[3]	13/870704	2013/0311172		Abandoned
32526	32526-US-PAT	11/848895	2009/0063135	7949516	Granted
32528	32528-US-CNT	13/710776	2014/0006008		Abandoned
32528	32528-US-PAT	12/046698	2009/0235165	8365071	Granted
32528	32528-US-PRV	60/969393			Converted
32530	32530-US-CNT	13/765913	2013/0262081		Abandoned
32530	32530-US-PAT	12/046729	2009/0063963	8413049	Granted
32530	32530-US-PRV	60/969407			Converted
32531	32531-US-PAT	12/038947	2009/0023450	8725148	Granted
32531	32531-US-PRV	60/949898			Converted
32534	32534-US-CNT	13/355278	2012/0113881	9161266	Granted
32534	32534-US-PAT	12/394198	2010/0220640	8131325	Granted
32540	32540-US-DIV	13/240749	2012/0106104	8822861	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32540	32540-US-PAT	12/033976	2009/0207054		Abandoned
32541	32541-US-PAT	11/955600	2009/0036172	8041403	Granted
32541	32541-US-PRV	60/952610			Converted
32546	32546-US-PAT	11/850751	2009/0066586	7800546	Abandoned
32547	32547-US-PAT	12/016570	2009/0186660	8611971	Granted
32548	32548-US-PAT	12/943299	2012/0113616		Abandoned
32554	32554-US-CNT	12/901641	2011/0025567	8487815	Granted
32554	32554-US-CNT[2]	13/927691	2013/0285868	9300035	Granted
32554	32554-US-CNT[3]	15/048074	2016/0254593	9666935	Granted
32554	32554-US-PAT	11/863324	2009/0085812	7812773	Granted
32560	32560-US-CNT	13/276607	2012/0032640	8237337	Granted
32560	32560-US-CNT[2]	13/548625	2012/0274274	8456064	Granted
32560	32560-US-PAT	12/606542	2011/0095652	8063541	Granted
32570	32570-US-PAT	12/646645	2011/0153857		Abandoned
32587	32587-US-PAT	12/117910	2009/0279881	7835640	Granted
32589	32589-US-CNT	13/079112	2011/0177849	8634791	Granted
32589	32589-US-PAT	11/947178	2009/0143040	7941116	Granted
32590	32590-US-PAT	12/022917	2009/0188890		Abandoned
32595	32595-US-CNT	13/457124	2012/0214438	8270953	Granted
32595	32595-US-CNT[2]	13/615853	2013/0005314	8457610	Granted
32595	32595-US-PAT	12/464531	2009/0280783	8175583	Granted
32595	32595-US-PRV	61/052444			Converted
32597	32597-US-PAT	12/140331	2009/0313348	8452854	Granted
32598	32598-US-CNT	13/304360	2012/0068599	8421357	Granted
32598	32598-US-PAT	12/393094	2010/0213842	8084946	Granted
32600	32600-US-PAT	11/837703	2009/0046069	8094130	Granted
32614	32614-US-PAT	11/855021	2009/0073115	8358267	Granted
32618	32618-US-CNT	13/042850	2011/0159819	8009089	Granted
32618	32618-US-PAT	12/046701	2009/0231188	7903025	Granted
32621	32621-US-PAT	11/956647	2009/0153491		Abandoned
32622	32622-US-CNT	13/298846	2012/0063419	8570979	Abandoned
32622	32622-US-PAT	12/099655	2009/0046655	8064403	Abandoned
32622	32622-US-PRV	60/956531			Converted
32623	32623-US-CNT	13/476376	2012/0231741	8694036	Granted
32623	32623-US-PAT	11/859144	2009/0082053	8200263	Granted
32626	32626-US-PAT	12/038927	2009/0222482	8635192	Granted
32642	32642-US-PAT	11/838041	2009-0047922		Abandoned
32661	32661-US-PAT	12/050297	2009/0241027		Abandoned
32667	32667-US-PAT	11/962181	2009/0164774	8495375	Granted
32667-1	32667-1-US-PAT	11/962189	2009/0161876	8452017	Granted

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32671	32671-US-PAT	12/362604	2010/0194692	8633901	Granted
32671-1	32671-1-US-CIP	12/696136	2010/0194682	8482520	Granted
32673	32673-US-PAT	12/189679	2009/0041018	8144695	Granted
32673	32673-US-PRV	60/955272			Converted
32677	32677-US-PAT	11/837710	2009/0046070		Abandoned
32679	32679-US-PAT	11/837754	2009/0046071	8976120	Granted
32680	32680-US-CNT	13/718125	2013/0109311	8615195	Granted
32680	32680-US-PAT	12/241111	2010/0081374	8351854	Granted
32688	32688-US-PAT	11/869937	2009/0097628	8718255	Granted
32691	32691-US-CNT	13/608549	2013/0007454	9015486	Granted
32691	32691-US-PAT	11/863712	2009/0089584	8295486	Granted
32693	32693-US-PAT	12/258906	2009/0144540	9414230	Granted
32693	32693-US-PRV	60/982708			Converted
32700	32700-US-CNT	13/399811	2012/0147803	8369256	Granted
32700	32700-US-CNT[2]	13/743530	2013/0128748	8699393	Granted
32700	32700-US-CNT[3]	14/078864	2014/0071875	9019884	Granted
32700	32700-US-PAT	12/193918	2009/0052361	8144679	Granted
32700	32700-US-PRV	60/956845			Converted
32700	32700-US-PRV2	60/974653			Converted
32702	32702-US-CNT	13/439217	2012/0198474	8561083	Granted
32702	32702-US-PAT	11/865373	2009/0089796	8166487	Granted
32705	32705-US-PAT	12/014135	2009/0183073		Abandoned
32712	32712-US-PAT	12/197782	2009/0052441	8325712	Granted
32712	32712-US-PRV	60/957651			Converted
32715	32715-US-PAT	12/360207	2010/0188371	8279184	Granted
32716	32716-US-PAT	12/125405	2009/0086976	8553877	Granted
32716	32716-US-PRV	60/976705			Converted
32723	32723-US-PAT	12/343627	2010/0162168		Abandoned
32725	32725-US-CNT	13/032380	2011/0143659	8155585	Granted
32725	32725-US-PAT	11/937754	2009/0124198	7917085	Granted
32734	32734-US-PAT	12/031211	2009/0210479	8572287	Granted
32735	32735-US-PAT	12/394997	2010/0223398		Abandoned
32737	32737-US-CNT	13/477121	2012/0232911	8457957	Granted
32737	32737-US-PAT	12/325409	2010/0138225	8204744	Granted
32738	32738-US-CNT	13/708197	2013/0093772	8767010	Granted
32738	32738-US-PAT	12/476778	2010/0002939	8368719	Granted
32738	32738-US-PRV	61/078188			Converted
32761	32761-US-CNT	13/917162	2013/0294311	10212638	Granted
32761	32761-US-CNT[2]	16/269055	2019/0174388	10701614	Granted
32761	32761-US-PAT	12/193991	2009/0054006	8483624	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32763	32763-US-CNT	16/000978	2018/0288036	10356083	Granted
32763	32763-US-PAT	12/039960	2009/0222902	10015158	Granted
32765	32765-US-PAT	12/039991	2009/0222657	9479339	Granted
32769	32769-US-CNT	13/529088	2012/0265849	10887352	Granted
32769	32769-US-CNT[2]	17/112636	2021/0092166		Publication of Application
32769	32769-US-PAT	12/209032	2009/0068996	8249561	Granted
32769	32769-US-PRV	60/971495			Converted
32775	32775-US-CNT	14/022869	2014/0009393	9405362	Granted
32775	32775-US-PAT	12/033194	2009/0075697	9069377	Granted
32775	32775-US-PRV	60/972138			Converted
32781	32781-US-CNT	13/271945	2012/0034879	8295245	Abandoned
32781	32781-US-CNT[2]	13/613795	2013/0012137		Abandoned
32781	32781-US-PAT	11/868879	2009/0093251	8089933	Abandoned
32783	32783-US-PAT	12/626653	2011/0125506	8380524	Granted
32784	32784-US-PAT	11/866282	2009/0088159	8929891	Abandoned
32787	32787-US-PAT	11/867880	2009/0094222	7979906	Granted
32789	32789-US-PAT	12/189683	2009/0041010	7990960	Granted
32789	32789-US-PRV	60/972602			Converted
32792	32792-US-CNT	13/892360	2013/0268223	9267994	Granted
32792	32792-US-DIV	13/567163	2012/0303302	8473231	Granted
32792	32792-US-PAT	12/536659	2010/0036628	8255176	Granted
32792	32792-US-PRV	61/086985			Converted
32794	32794-US-PAT	11/952207	2009/0146908		Abandoned
32799	32799-US-PAT	12/034547	2009-0209300	8050932	Granted
32802	32802-US-CNT	14/222960	2014/0206337	9088662	Granted
32802	32802-US-PAT	12/408588	2010/0240351	8718631	Granted
32804	32804-US-PAT	12/021503	2009/0189875		Abandoned
32817	32817-US-PAT	12/182166	2010/0026608	9013369	Granted
32818	32818-US-PAT	12/040164	2009/0222748	8875042	Granted
32828	32828-US-PAT	12/143962	2009/0316828	8644407	Granted
32829	32829-US-CNT	13/725031	2013/0115996		Abandoned
32829	32829-US-PAT	12/392177	2010/0216500	8374643	Abandoned
32830	32830-US-CNT	13/606116	2012/0326861	8653964	Granted
32830	32830-US-PAT	12/325543	2010/0134274	8274380	Granted
32831	32831-US-CNT	13/313624	2012/0080521	8490874	Granted
32831	32831-US-PAT	12/325309	2010/0133338	8074880	Granted
32832	32832-US-PAT	12/325650	2010/0138667		Abandoned
32834	32834-US-CNT	13/615933	2013/0007876		Abandoned
32834	32834-US-PAT	12/325568	2010/0138914		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32837	32837-US-PAT	12/240286	2009/0119380	8516140	Granted
32837	32837-US-PRV	60/976419			Converted
32837-1	32837-1-US-PAT	12/240321	2009/0119316		Abandoned
32837-1	32837-1-US-PRV	60/978976			Converted
32837-2	32837-2-US-PAT	12/240381	2009/0119381	8463913	Granted
32840	32840-US-PAT	12/393740	2010/0216436	8942229	Granted
32841	32841-US-PAT	12/041899	2009/0227293	8208979	Granted
32843	32843-US-PAT	12/023191	2009/0195959		Abandoned
32848	32848-US-PAT	12/391597	2010/0214958		Abandoned
32849	32849-US-CNT	13/710855	2013/0102284	8588757	Granted
32849	32849-US-PAT	12/118195	2009/0280782	8355710	Granted
32854	32854-US-PAT	12/276525	2010/0131521	9154662	Granted
32859	32859-US-CNT	13/455303	2013/0110512	8688455	Granted
32859	32859-US-CNT[2]	14/179684	2014/0163993	9099081	Granted
32859	32859-US-CNT[3]	14/750075	2015/0325231	9372130	Granted
32859	32859-US-CNT[4]	15/166406	2016/0275937	9892724	Granted
32859	32859-US-PAT	12/171550	2010/0010815	8185396	Granted
32859-1	32859-1-US-CNT	13/403540	2012/0158406	8352271	Granted
32859-1	32859-1-US-CNT[2]	13/709159	2013/0096920		Abandoned
32859-1	32859-1-US-PAT	12/171558	2010/0010816	8126718	Granted
32862	32862-US-CNT	13/271985	2012/0034880	8385303	Granted
32862	32862-US-CNT[2]	13/774882	2013/0165053	8644285	Granted
32862	32862-US-PAT	11/869437	2009/0092107	8089942	Granted
32866	32866-US-PAT	12/371768	2010/0207774	8159363	Granted
32867	32867-US-CNT	14/463019	2014/0358675	9092800	Granted
32867	32867-US-PAT	12/170750	2009/0112978	8856207	Granted
32867	32867-US-PRV	60/982833			Converted
32868	32868-US-PAT	12/392357	2010/0217600	8645140	Granted
32872	32872-US-PAT	12/706419	2011/0199533	8964103	Granted
32873	32873-US-PAT	12/713860	2011/0211089	9369685	Granted
32877	32877-US-PAT	12/713625	2011/0211807	8744234	Granted
32880	32880-US-PAT	12/604638	2011/0096753	8731509	Granted
32882	32882-US-CNT	13/846208	2013/0219017	9178932	Granted
32882	32882-US-CNT[2]	14/930457	2016/0057601	9420447	Granted
32882	32882-US-CNT[3]	15/231367	2016/0353267	10389763	Granted
32882	32882-US-CNT[4]	16/529660	2019/0356702	10841346	Granted
32882	32882-US-CNT[5]	17/073192	2021/0037065		Publication of Application
32882	32882-US-PAT	12/256169	2009/0119382	8407299	Granted
32882	32882-US-PRV	60/983174			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32885	32885-US-PAT	12/138661	2009/0311983	8532593	Granted
32888	32888-US-PAT	12/016476	2009/0187820	8418056	Granted
32892	32892-US-PAT	12/436370	2009/0282423		Abandoned
32892	32892-US-PRV	61/052627			Converted
32895	32895-US-PAT	12/017569	2009/0187489	8392262	Granted
32901	32901-US-PAT	12/389865	2010/0216465	8463269	Granted
32903	32903-US-PAT	12/056848	2009/0244013		Abandoned
32904	32904-US-PAT	11/941774	2009/0128501	9058077	Granted
32906	32906-US-PAT	12/361084	2010/0190479	8521122	Granted
32908	32908-US-PAT	12/394927	2010/0220064	8619043	Granted
32914	32914-US-PAT	11/944533	2009/0135145	8253698	Granted
32920	32920-US-CNT	13/728540	2013/0117457	8799484	Granted
32920	32920-US-PAT	12/034227	2009/0210536	8392580	Granted
32921	32921-US-CNT	13/658445	2013/0045747	8560008	Granted
32921	32921-US-PAT	12/362616	2010/0197301	8311576	Granted
32923	32923-US-PAT	12/256358	2009/0193320	8381084	Granted
32923	32923-US-PRV	60/982045			Converted
32924	32924-US-CNT	13/241452	2012/0013488	8743535	Granted
32924	32924-US-PAT	12/050481	2009/0236206	8050019	Granted
32932	32932-US-PAT	12/420919	2010/0260174		Abandoned
32934	32934-US-PAT	12/897991	2012/0084368		Abandoned
32939	32939-US-CNT	13/102513	2011/0205113	8159392	Granted
32939	32939-US-PAT	12/118040	2009/0278735	7956804	Granted
32946	32946-US-CNT	13/532463	2012/0263076	8811217	Granted
32946	32946-US-PAT	12/263274	2009/0116440	8248962	Granted
32946	32946-US-PRV	60/985084			Converted
32951	32951-US-CNT	13/721804	2013/0107747	8688030	Granted
32951	32951-US-PAT	12/394158	2010/0220609	8385815	Granted
32960	32960-US-PAT	11/942210	2009/0132558		Abandoned
32961	32961-US-PAT	12/395083	2010/0223359	9407686	Granted
32967	32967-US-PAT	12/362525	2010/0192662	8459094	Granted
32969	32969-US-CNT	13/301006	2012/0066299	9021059	Granted
32969	32969-US-PAT	12/394994	2010/0223321	8065361	Granted
32970	32970-US-PAT	12/173037	2010/0016033	8983554	Granted
32973	32973-US-CNT	17/496542			Filing
32973	32973-US-PAT	12/016248	2009/0187574	11157975	Granted
32976	32976-US-PAT	11/960220	2009/0161575		Abandoned
32979	32979-US-CNT	14/016451	2014/0004911	8755847	Granted
32979	32979-US-CNT[2]	14/269548	2014/0243050	8971971	Granted
32979	32979-US-PAT	12/371657	2010/0210318	8538493	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
32982	32982-US-DIV	13/588754	20120309301	8706127	Granted
32982	32982-US-DIV[2]	13/587666	20120307788	8731575	Granted
32982	32982-US-PAT	12/341956	2009/0170509	8265639	Granted
32982	32982-US-PRV	61/016646			Converted
32986	32986-US-CNT	13/923475	2013/0282848	9350689	Granted
32986	32986-US-PAT	12/394766	2010/0223342	8499045	Granted
32986-1	32986-1-US-CNT	13/565229	2012/0297002	8463863	Granted
32986-1	32986-1-US-CNT[2]	13/889621	2013/0246547		Abandoned
32986-1	32986-1-US-PAT	12/394809	2010/0223331	8326931	Granted
32992	32992-US-CNT	13/611756	2013/0003793	9685982	Granted
32992	32992-US-PAT	12/173045	2010/0016032	8315578	Granted
32993	32993-US-PAT	12/031337	2009/0210805	8032838	Granted
32996	32996-US-PAT	12/500081	2010/0011077	9894020	Granted
32996	32996-US-PRV	61/079223			Converted
32998	32998-US-PAT	12/275829	2010/0130174	8200199	Granted
32999	32999-US-PAT	12/499993	2010/0009653	8483727	Granted
32999	32999-US-PRV	61/079270			Converted
33000	33000-US-PAT	12/500025	2010/0011076	9794364	Granted
33000	33000-US-PRV	61/079367			Converted
33001	33001-US-PAT	12/500132	2010/0011078	8862673	Granted
33001	33001-US-PRV	61/079327			Converted
33002	33002-US-PAT	12/499973	2010/0011075	8126976	Granted
33002	33002-US-PRV	61/079376			Converted
33004	33004-US-PAT	12/031083	2009/0210498	8176205	Granted
33005	33005-US-PAT	12/470551	2010/0299395	8543914	Granted
33010	33010-US-PAT	12/418133	2009/0278828	8610659	Granted
33010	33010-US-PRV	61/052541			Converted
33013	33013-US-PAT	12/257509	2010/0105437	8577418	Granted
33018	33018-US-PAT	12/039905	2009/0219244	8194028	Granted
33022	33022-US-CNT	13/720312	2013/0106618	8781451	Granted
33022	33022-US-CNT[2]	14/326106	2014/0323158	9143900	Granted
33022	33022-US-CNT[3]	14/840668	2015/0373502	9596572	Granted
33022	33022-US-CNT[4]	15/446708	2017/0180946	10251026	Granted
33022	33022-US-CNT[5]	16/371748	2019/0230479	11012815	Granted
33022	33022-US-PAT	12/333495	2010/0151838	8351912	Granted
33026	33026-US-CNT	13/617288	2013/0013735		Abandoned
33026	33026-US-CNT[2]	13/617511	2013/0013796	9264452	Granted
33026	33026-US-CNT[3]	13/955095	2013/0318248	9935985	Granted
33026	33026-US-PAT	11/952921	2009/0150562		Abandoned
33033	33033-US-CNT	13/398067	2012/0147216	8606802	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33033	33033-US-CNT[2]	14/073268	2014/0067857	9104698	Granted
33033	33033-US-PAT	12/333680	2010/0153386	8122024	Granted
33034	33034-US-CNT	13/325099	2012/0100819	8275329	Granted
33034	33034-US-CNT[2]	13/604455	2013/0012261	8620231	Granted
33034	33034-US-CNT[3]	14/093788	2014/0155005	8965308	Granted
33034	33034-US-PAT	12/117036	2009/0280757	8099064	Granted
33036	33036-US-CNT	13/048202	2011/0163924		Abandoned
33036	33036-US-PAT	12/173043	2010/0013718	7932864	Granted
33038	33038-US-PAT	11/953771	2009/0149164		Abandoned
33041	33041-US-CNT	13/293594	2012/0052849	8351909	Granted
33041	33041-US-CNT[2]	13/705495	2013/0102293	8594639	Granted
33041	33041-US-PAT	12/390936	2010/0216435	8078151	Granted
33044	33044-US-PAT	12/784602	2011/0289051	8429122	Granted
33047	33047-US-PAT	12/209900	2010/0070641	8028074	Granted
33050	33050-US-PAT	12/112822	2009/0258633	8306507	Granted
33050	33050-US-PRV	61/044386			Converted
33051	33051-US-CNT	13/542906	2012/0284350	8825782	Granted
33051	33051-US-PAT	12/790051	2011/0295959	8244818	Granted
33056	33056-US-PAT	12/390646	2010/0216512	8463326	Granted
33057	33057-US-CNT	13/240573	2012/0007745	8344901	Granted
33057	33057-US-CNT[2]	13/686492	2013/0082844	8519858	Granted
33057	33057-US-PAT	12/360153	2010/0188243	8044818	Granted
33060	33060-US-CNT	13/794280	2013/0235775	9432934	Granted
33060	33060-US-CNT[2]	15/231397	2017/0019849	9913221	Granted
33060	33060-US-PAT	12/138653	2009/0312004	8427986	Granted
33063	33063-US-PAT	12/394454	2010/0222034	8428566	Granted
33065	33065-US-CNT	12/555616	2009/0323264	7852626	Granted
33065	33065-US-PAT	12/129165	2009/0296341	7630200	Granted
33067	33067-US-DES	29/304918		D605651	Granted
33068	33068-US-PAT	12/108707	2009/0267892		Abandoned
33072	33072-US-CNT	13/618077	2013/0010730	9100953	Abandoned
33072	33072-US-PAT	12/333682	2009/0154417	8295233	Abandoned
33072	33072-US-PRV	61/013711			Converted
33075	33075-US-DIV	13/015808	2011/0131219		Abandoned
33075	33075-US-PAT	11/952804	2009/0150488		Abandoned
33086	33086-US-PAT	12/562350	2011/0069439	8339782	Granted
33090	33090-US-PAT	12/206006	2010/0062810	8346308	Granted
33101	33101-US-CNT	13/371156	2012/0143975	8805426	Granted
33101	33101-US-PAT	12/032833	2009/0209243	8229413	Granted
33103	33103-US-PAT	12/394331	2010/0222096	8099126	Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33112	33112-US-PAT	12/333710	2009/0158239		Abandoned
33112	33112-US-PRV	61/013813			Converted
33113	33113-US-PAT	12/333756	2009/0157804		Abandoned
33113	33113-US-PRV	61/013827			Converted
33114	33114-US-PAT	12/507318	2010/0035589	8265607	Granted
33114	33114-US-PRV	61/086888			Converted
33116	33116-US-PAT	12/507355	2010/0041422	8260331	Granted
33116	33116-US-PRV	61/087013			Converted
33117	33117-US-CNT	13/693986	2013/0097527	10007395	Granted
33117	33117-US-PAT	12/609058	2011/0106889	8341230	Granted
33118	33118-US-PAT	12/333784	2009/0157805	8255482	Granted
33118	33118-US-PRV	61/013834			Converted
33119	33119-US-PAT	12/043495	2009/0224931	7898428	Granted
33128	33128-US-CNT	13/862606	2013/0282278	8892353	Granted
33128	33128-US-PAT	12/559216	2011/0066369	8437951	Granted
33132	33132-US-PAT	12/785344	20110289238	8364649	Granted
33138	33138-US-CNT	14/699793	2015/0237543		Abandoned
33138	33138-US-CNT[2]	15/611604	2017/0272986		Abandoned
33138	33138-US-PAT	12/793977	2010/0313020	9629038	Granted
33138	33138-US-PRV	61/184116			Converted
33139	33139-US-CNT	13/196351	2011/0286617	8311597	Granted
33139	33139-US-CNT[2]	13/632815	2013/0029722	8548537	Granted
33139	33139-US-PAT	12/190722	2009/0186653	8014821	Granted
33139	33139-US-PRV	61/022023			Converted
33141	33141-US-CNT	13/966377	2014/0023204	9232329	Granted
33141	33141-US-PAT	12/393870	2010/0215187	8538383	Granted
33144	33144-US-CNT	13/397902	2012/0149347	8577351	Granted
33144	33144-US-PAT	12/366745	2010/0203874	8135391	Granted
33146	33146-US-CNT	13/462910	2012/0213344		Abandoned
33146	33146-US-PAT	12/394474	2010/0220843	8194849	Granted
33147	33147-US-CNT	13/614324	2013/0012162	8897748	Granted
33147	33147-US-PAT	12/394481	2010/0222020	8295804	Granted
33150	33150-US-PAT	12/395050	2010/0222042		Abandoned
33152	33152-US-PAT	12/395038	2010/0223343		Abandoned
33162	33162-US-CNT	13/324302	2012/0082138		Abandoned
33162	33162-US-PAT	12/118143	2009/0279508	8098630	Granted
33163	33163-US-CNT	13/437520	2012/0252390	8326232	Granted
33163	33163-US-CNT[2]	13/611770	2013/0003809	8548389	Granted
33163	33163-US-PAT	12/132659	2009/0305654	8170489	Granted
33168	33168-US-CNT	14/020044	2014/0006460	9396225	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33168	33168-US-PAT	12/361982	2009/0193512	8549603	Granted
33168	33168-US-PRV	61/024278			Converted
33172	33172-US-CNT	13/037328	2011/0198397	8172151	Granted
33172	33172-US-CNT[2]	13/437312	2012/0286039	8448875	Granted
33172	33172-US-PAT	12/325582	2010/0133342	7896247	Granted
33175	33175-US-CIP	12/275665	2009/0186662		Abandoned
33175	33175-US-DEC	29/328294		D592175	Granted
33179	33179-US-CNT	14/316540	2014/0325084	9219764	Granted
33179	33179-US-CNT[2]	14/973327	2016/0105466	9769215	Granted
33179	33179-US-CNT[3]	15/695838	2017/0366584	10033771	Granted
33179	33179-US-PAT	12/016167	2009/0185523	8855103	Granted
33183	33183-US-PAT	12/394104			Abandoned
33183	33183-US-PAT[2]	12/705853	2010/0223139		Abandoned
33183-1	33183-1-US-PAT	12/394115			Abandoned
33183-1	33183-1-US-PAT[2]	12/705870	2010/0223140		Abandoned
33187	33187-US-PAT	12/392187	2010/0217871	8914477	Granted
33194	33194-US-PAT	12/394440	2010/0223044	8489386	Granted
33195	33195-US-CNT	13/619797	2013/0022190	8571193	Granted
33195	33195-US-CNT[2]	14/027058	2014/0018043	8885807	Granted
33195	33195-US-PAT	12/394164	2010/0220845	8290135	Granted
33196	33196-US-CNT[2]	13/616941	2013/0010945		Abandoned
33196	33196-US-CNT[3]	13/783462	2013/0178192		Abandoned
33196	33196-US-PAT	12/715950	2011/0217966	8417229	Granted
33196	33196-US-PAT[2]	12/790726	2011/0216674	8289886	Granted
33199	33199-US-CNT	14/335577	2015/0079936	9532217	Granted
33199	33199-US-PAT	12/651590	2011/0165858	8787874	Granted
33200	33200-US-PAT	12/651619	2011/0164741	8897435	Granted
33201	33201-US-CNT	14/506532	2015/0023487	9374470	Granted
33201	33201-US-PAT	12/651604	2011/0164740	8867720	Granted
33203	33203-US-PAT	12/394303	2010/0220634		Abandoned
33206	33206-US-PAT	12/394650	2010/0220635		Abandoned
33209	33209-US-PAT	12/366019	2010/0194678		Abandoned
33210	33210-US-CNT	14/503873	2015/0017960	9332403	Granted
33210	33210-US-PAT	12/266062	2010/0111279	8867719	Granted
33216	33216-US-PAT	12/354213	2009/0281718	11187541	Granted
33216	33216-US-PRV	61/051754			Converted
33217	33217-US-CNT	13/463967	2012/0213298	8451912	Granted
33217	33217-US-PAT	12/371127	2009/0207937	8175169	Granted
33217	33217-US-PRV	61/028956			Converted
33218	33218-US-CIP	12/355387	2009/0186670	8489157	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33218	33218-US-DCP	29/330988		D628970	Granted
33221	33221-US-PAT	12/023897	2009/0196236	8081606	Granted
33223	33223-US-CNT	14/530160	2015/0055535	9014061	Granted
33223	33223-US-PAT	12/024873	2009/0196208	8908570	Granted
33227	33227-US-CNT	13/680789	2013/0080647	8787371	Granted
33227	33227-US-CNT[2]	14/298604	2014/0289348	9237198	Granted
33227	33227-US-CNT[3]	14/992720	2016/0134664	9723029	Granted
33227	33227-US-CNT[4]	15/658091	2017/0324783	10397282	Granted
33227	33227-US-CNT[5]	16/514756	2019/0342348	11038930	Granted
33227	33227-US-CNT[6]	17/322411	2021/0273979		Publication of Application
33227	33227-US-PAT	12/361382	2009/0190577	8345679	Granted
33227	33227-US-PRV	61/024132			Converted
33228	33228-US-PAT	12/369822	2009/0253432	7991397	Granted
33228	33228-US-PRV	61/029151			Converted
33230	33230-US-PAT	12/108733	2009/0267920	9274601	Granted
33231	33231-US-PAT	12/028497	2009/0203366	8744442	Granted
33237	33237-US-CNT	13/365664	2012/0135277	9648151	Granted
33237	33237-US-PAT	12/394641	2010/0221617	8133621	Granted
33240	33240-US-PAT	12/392505	2010/0213890		Abandoned
33247	33247-US-PAT	12/052902	2009/0238207	8218436	Abandoned
33248	33248-US-CNT	13/614375	2013/0021250	9195318	Granted
33248	33248-US-CNT[2]	14/949202	2016/0077602	10146326	Granted
33248	33248-US-PAT	12/354091	2010/0180235	8296680	Granted
33256	33256-US-DES	29/332290			Abandoned
33256	33256-US-PAT	12/363028	2010/0197370	8190220	Granted
33263	33263-US-CNT	13/950494	2013/0311571	9055127	Granted
33263	33263-US-PAT	12/646493	2011/0150199	8520822	Granted
33264	33264-US-PAT	12/431041	2010/0272250		Abandoned
33269	33269-US-PAT	12/394625	2010/0220849	8660254	Granted
33270	33270-US-CNT	13/351469	2012/0115437	9112964	Granted
33270	33270-US-PAT	12/394208	2010/0222097	8121638	Granted
33271	33271-US-CNT	14/930465	2016/0057696	9888437	Granted
33271	33271-US-CNT[2]	15/888977	2018/0160367	10477468	Granted
33271	33271-US-PAT	12/389584	2009/0279492	9179399	Granted
33271	33271-US-PRV	61/052432			Converted
33272	33272-US-PAT	12/609461	2011/0106526	9026427	Granted
33273	33273-US-CNT	13/171602	2011/0254754	8310401	Granted
33273	33273-US-CNT[2]	13/609855	2013/0005398	8462057	Granted
33273	33273-US-CNT[3]	13/899138	2013/0252665	8599077	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33273	33273-US-CNT[4]	14/059822	2014/0045560	8742996	Granted
33273	33273-US-CNT[5]	14/289677	2014/0266927	9954269	Granted
33273	33273-US-PAT	12/115646	2009/0219216	7973725	Granted
33273	33273-US-PRV	61/032563			Converted
33282-2	33282-2-US-PAT	12/388386	2009/0210478		Abandoned
33282-2	33282-2-US-PRV	61/029523			Converted
33284	33284-US-PAT	12/361052	2010/0190467	8543081	Granted
33286	33286-US-PAT	12/209272	2010/0067632	8116394	Abandoned
33287	33287-US-CNT	13/304529	2012/0072594	8260905	Granted
33287	33287-US-CNT[2]	13/548776	2012/0278486	8359385	Granted
33287	33287-US-CNT[3]	13/706881	2013/0124731	8504677	Granted
33287	33287-US-PAT	12/576755	2011/0087791	8078714	Granted
33290	33290-US-PAT	12/555366	2010/0064172	9392028	Granted
33290	33290-US-PRV	61/095272			Converted
33304	33304-US-PAT	12/361116	2010/0190468	8649759	Granted
33308	33308-US-PAT	12/332437	2010/0151846	8787993	Granted
33309	33309-US-CNT	13/532168	2012/0263398	8576275	Granted
33309	33309-US-PAT	12/100820	2009/0258594	8208006	Granted
33323	33323-US-PAT	12/254002	2010/0097274	8203498	Granted
33324	33324-US-CNT	13/409568	2012/0163366		Abandoned
33324	33324-US-PAT	12/190830	2010/0040040	8149813	Granted
33326	33326-US-CNT	12/953961	2011/0080702	8035963	Granted
33326	33326-US-PAT	12/343718	2010/0157518	7864524	Granted
33328	33328-US-CNT	13/595659	2012/0323555	8510095	Granted
33328	33328-US-CNT[2]	13/935101	2013/0297286	8972238	Granted
33328	33328-US-PAT	12/463593	2009/0281787	8275601	Granted
33328	33328-US-PRV	61/052222			Converted
33329	33329-US-PAT	12/110124	2009/0268726	8621084	Granted
33331	33331-US-CIP	10/245918	2004/0015547	7072941	Granted
33331	33331-US-CIP2	10/292828	2004/0015548	7111044	Granted
33331	33331-US-CIP3	10/748723	2004/0202117	7640293	Granted
33331	33331-US-CNT[3]	12/615480	2010/0056109	8001181	Granted
33331	33331-US-CNT[4]	13/437200	2012/0191796	8788603	Granted
33331	33331-US-CNT[5]	14/334797	2014/0331150	9900271	Granted
33331	33331-US-CNT[6]	15/843912	2018/0109475		Appealed
33331	33331-US-PAT	10/197022	2004/0015553	8150922	Granted
33332	33332-US-PAT	09/412202	2003/0040903	6937977	Expired
33333	33333-US-PAT	09/412699		6963759	Expired
33334	33334-US-CNT	13/891273		RE45066	Reissued (Inactive Parent)

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33334	33334-US-CNT[2]	14/322989			Expired
33334	33334-US-PAT	09/412119		6868385	Reissued (Inactive Parent)
33334	33334-US-REI	13/891262		RE45041	Expired
33335	33335-US-DIV	11/113627	2005/0192812	7433822	Expired
33335	33335-US-PAT	09/780916	2002/0111812	6885987	Expired
33336	33336-US-PAT	09/861353	2002/0173299	7386303	Expired
33338	33338-US-CNT	14/468693	2014/0365447	9495384	Granted
33338	33338-US-PAT	12/511418	2011/0029900	8850341	Granted
33342	33342-US-CNT	13/603334	2012/0330896	8898110	Granted
33342	33342-US-PAT	12/437030	2009/0282351	8285675	Granted
33342	33342-US-PRV	61/052319			Converted
33345	33345-US-CNT	14/338143	2015/0023222	9185229	Granted
33345	33345-US-CNT[2]	14/920593	2016/0057286	9819803	Granted
33345	33345-US-PAT	12/393450	2010/0208625	8824341	Granted
33345	33345-US-PRV	61/152450			Converted
33347	33347-US-PAT	12/393515	2010/0211911		Abandoned
33347	33347-US-PRV	61/152473			Converted
33355	33355-US-PAT	12/392154	2009/0282352	8607161	Granted
33355	33355-US-PRV	61/052020			Converted
33361	33361-US-PAT	12/395164	2010/0220851		Abandoned
33363	33363-US-PAT	12/395212	2010/0223356	8914468	Granted
33366	33366-US-CNT	13/480609	2012/0232996	8635213	Granted
33366	33366-US-PAT	12/395288	2010/0223279	8214357	Granted
33368	33368-US-CNT	13/732726	2013/0122976	8604984	Granted
33368	33368-US-PAT	12/183223	2009/0278750	8378898	Granted
33368	33368-US-PRV	61/051432			Converted
33369	33369-US-CNT	13/413210	2012/0172019	8929869	Granted
33369	33369-US-PAT	12/394131	2010/0222033	8155630	Granted
33380	33380-US-CNT	14/527265	2015/0046258		Abandoned
33380	33380-US-PAT	12/394103	2010/0223135		Abandoned
33382-1	33382-1-US-PAT	12/394243	2010/0219973	9087465	Granted
33392	33392-US-PAT	12/394909	2010/0222036	8606248	Granted
33393	33393-US-CNT	13/654012	2013/0094688	8750549	Granted
33393	33393-US-PAT	12/574375	2010/0086163	8320599	Granted
33393	33393-US-PRV	61/103356			Converted
33394	33394-US-CNT	13/244746	2012/0014343	8238837	Granted
33394	33394-US-CNT[2]	14/074070	2014/0313955	9215696	Granted
33394	33394-US-CNT[3]	14/884287	2016/0037468	9578610	Granted
33394	33394-US-CNT[4]	15/430051	2017/0288826	10015758	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33394	33394-US-PAT	12/052539	2009/0239476	8606336	Granted
33397	33397-US-CNT	13/247770	2012/0076060	8462657	Granted
33397	33397-US-PAT	12/052887	2009/0239525	8121045	Granted
33398	33398-US-PAT	12/052893	2009/0238165	10028299	Granted
33399	33399-US-CNT	13/771595	2013/0163547	9055589	Granted
33399	33399-US-PAT	12/346111	2009/0279489	8402165	Granted
33399	33399-US-PRV	61/051915			Converted
33401	33401-US-PAT	12/394247	2010/0222044	8676179	Granted
33410	33410-US-PAT	12/391447	2010/0217808	9935792	Granted
33412	33412-US-PAT	12/395017	2010/0223094		Abandoned
33415	33415-US-DIV	14/093001	2014/0094190	9237421	Granted
33415	33415-US-PAT	12/432226	2010/0279706	8626184	Granted
33417	33417-US-CNT	15/899178	2018/0176721	10299069	Granted
33417	33417-US-CNT[2]	16/415194	2019/0274004	10820158	Granted
33417	33417-US-DIV	14/478262	2014/0378163	9900732	Granted
33417	33417-US-PAT	12/432371	2010/0279712	8849314	Granted
33418	33418-US-CNT	14/711512	2015/0245178	9775000	Granted
33418	33418-US-CNT[2]	15/707363	2018/0007514	10334400	Granted
33418	33418-US-CNT[3]	16/450812	2019/0313207	10932091	Granted
33418	33418-US-PAT	12/432412	2010/0279710	9049543	Granted
33421	33421-US-CNT	13/274433	2012/0032845	8471765	Granted
33421	33421-US-PAT	12/432144	2010/0277367	8040277	Granted
33423	33423-US-PAT	12/464279	2009/0313705	9112732	Granted
33423	33423-US-PRV	61/052630			Converted
33425	33425-US-PAT	12/394973	2009/0245108	8295174	Granted
33425	33425-US-PRV	61/040523			Converted
33426	33426-US-CNT	14/141552	2014/0104167	9536494	Granted
33426	33426-US-PAT	12/942562	2012/0113002	8619030	Granted
33434	33434-US-CNT	13/571123	2012/0300914	8619959	Abandoned
33434	33434-US-PAT	12/393077	2010/0215161	8265247	Abandoned
33440	33440-US-PAT	12/334815	2010/0153007	9062982	Granted
33445	33445-US-CNT	14/027393	2014/0015758		Abandoned
33445	33445-US-PAT	12/391564	2009/0278713	8564461	Granted
33445	33445-US-PRV	61/051831			Converted
33445-1	33445-1-US-CNT	14/309360	2014/0300553		Abandoned
33445-1	33445-1-US-DIV	13/770672	2013/0154944	8786552	Abandoned
33445-1	33445-1-US-PAT	12/391571	2009/0278804	8400405	Granted
33445-1	33445-1-US-PRV	61/051835			Converted
33449	33449-US-CNT	13/890784	2013/0253905	8725491	Granted
33449	33449-US-PAT	12/395012	2009/0281788	8463597	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33449	33449-US-PRV	61/052223			Converted
33455	33455-US-CNT	13/517876	2012/0257611	8412251	Granted
33455	33455-US-PAT	12/109200	2009/0270117	8204528	Granted
33457	33457-US-PAT	12/507399	2010/0020036		Abandoned
33457	33457-US-PRV	61/083087			Converted
33462	33462-US-PAT	12/408597	2009/0245177	8203997	Granted
33462	33462-US-PRV	61/040536			Converted
33464	33464-US-PAT	12/910183	2012/0100824	9491604	Granted
33465	33465-US-CNT	13/154074	2011/0233041	8227714	Granted
33465	33465-US-CNT[2]	13/529684	2012/0257098	8378240	Granted
33465	33465-US-PAT	12/393774	2010/0084252	7977587	Granted
33465	33465-US-PRV	61/103774			Converted
33474	33474-US-PAT	12/407958	2009/0238098	8320287	Granted
33474	33474-US-PRV	61/038432			Converted
33477	33477-US-CNT	13/330071	2012/0088503	8725144	Granted
33477	33477-US-PAT	12/175596	2010/0015973	8107955	Granted
33482	33482-US-CNT	13/304548	2012/0067712	8507820	Granted
33482	33482-US-PAT	12/393384	2010/0084254	8089017	Granted
33482	33482-US-PRV	61/103481			Converted
33483	33483-US-PAT	12/392324	2010/0084251	8058571	Granted
33483	33483-US-PRV	61/103789			Converted
33488	33488-US-PAT	12/394834	2010/0223333	8694591	Granted
33490	33490-US-PAT	12/394422	2010/0218592		Abandoned
33492	33492-US-PAT	12/963999	2012/0148879	8822096	Granted
33493	33493-US-PAT	12/137584	2009/0313543		Abandoned
33494	33494-US-PAT	12/395491	2010/0222048	8838084	Granted
33495	33495-US-CNT	13/424130	2012/0176944	8989060	Granted
33495	33495-US-PAT	12/394187	2010/0220636	8165045	Granted
33495-1	33495-1-US-CNT	13/364013	2012/0134303	8855024	Granted
33495-1	33495-1-US-PAT	12/394195	2010/0220637	8125933	Granted
33497	33497-US-PAT	12/114102	2009/0274336	8891802	Granted
33498	33498-US-PAT	12/649461	2011/0159895	8983532	Granted
33499	33499-US-CNT	13/651733	2013/0065566		Abandoned
33499	33499-US-PAT	12/394808	2010/0222028	8315606	Granted
33503	33503-US-PAT	12/145375	2009/0319691	8683077	Granted
33503-1	33503-1-US-PAT	12/145385	2009/0316684	8331355	Granted
33504	33504-US-PAT	12/121729	2009/0287561		Abandoned
33505	33505-US-PAT	12/109863	2009-0267904	8384677	Granted
33511	33511-US-CNT	13/768395	2013/0157159	9172101	Granted
33511	33511-US-PAT	12/394679	2010/0221628	8377603	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33513	33513-US-PAT	12/959466	2012/0141841		Abandoned
33519	33519-US-PAT	12/423624	2009/0257417	8977259	Granted
33519	33519-US-PRV	61/044566			Converted
33519-1	33519-1-US-CNT	13/669140	2013/0308599	9913235	Granted
33519-1	33519-1-US-CNT[2]	15/880789	2018/0167905		Publication of Application
33519-1	33519-1-US-PAT	12/423637	2009/0257418	8315236	Granted
33519-1	33519-1-US-PRV	61/044568			Converted
33520	33520-US-PAT	12/131779	2009/0296688	9602552	Granted
33520	33520-US-PCT	12/935826	2011/0095886	8305210	Granted
33520-2	33520-2-US-CNT	13/873646	2013/0337766	8755765	Granted
33520-2	33520-2-US-CNT[2]	14/968686	2016/0100435	9462616	Granted
33520-2	33520-2-US-CNT[3]	15/253036	2016/0374117	9814082	Granted
33520-2	33520-2-US-CNT[4]	15/789586	2018/0042055	10187924	Granted
33520-2	33520-2-US-CNT[5]	16/192613	2019/0090303	10631360	Granted
33520-2	33520-2-US-CNT[6]	16/823174	2020/0221537	10856359	Granted
33520-2	33520-2-US-PAT	12/131785	2009/0298458	8478226	Granted
33520-2	33520-2-US-PCT	12/937199	2011/0099281	9215734	Granted
33520-2	33520-2-US-PRV	61/061507			Converted
33520-2	33520-2-US-PRV2	61/081576			Converted
33520-3	33520-3-US-CNT	13/244795	2012/0015623	8369824	Granted
33520-3	33520-3-US-PAT	12/131790	2009/0296689		Abandoned
33520-3	33520-3-US-PCT	12/994416	2012/0028598	8442479	Granted
33522	33522-US-DES	29/332606		D620014	Granted
33531	33531-US-PAT	12/175791	2010/0017810	9195526	Granted
33531	33531-US-PRV	61/051865			Converted
33534	33534-US-PAT	12/475018	2009/0299941	8600923	Granted
33534	33534-US-PRV	61/056889			Converted
33548	33548-US-CNT	13/227849	2011/0317561		Abandoned
33548	33548-US-PAT	12/393327	2010/0214921	8036223	Granted
33550	33550-US-PAT	12/478854	2010/0313120	9043718	Granted
33551	33551-US-PAT	12/388782	2010/0210281	8260312	Granted
33558	33558-US-CNT	13/481901	2012/0238276	8559960	Granted
33558	33558-US-PAT	12/393334	2010/0216476	8208931	Granted
33572	33572-US-PAT	13/035494	2012/0221610	8914426	Granted
33573	33573-US-PAT	13/093898	2011/0271331	8819792	Granted
33573	33573-US-PRV	61/329552			Converted
33576	33576-US-CNT	13/664800	2013/0060883	8600310	Granted
33576	33576-US-PAT	12/775055	2011/0275320	8311487	Granted
33579	33579-US-PAT	12/351085	2010/0177044	8508480	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33582	33582-US-CNT	13/371336	2012/0142225	8655007	Granted
33582	33582-US-CNT[2]	13/372033	2012/0144072	8811647	Granted
33582	33582-US-PAT	12/393681	2010/0215183	8150046	Granted
33584	33584-US-CNT	13/601582	2012/0319986	8527902	Granted
33584	33584-US-PAT	12/354476	2010/0176963	8286095	Granted
33589	33589-US-PAT	12/395374	2009/0262736	8165068	Granted
33589	33589-US-PRV	61/046049			Converted
33591	33591-US-CNT	13/448179	2012/0199460	8367957	Granted
33591	33591-US-CNT[2]	13/734641	2013/0118876	8569639	Granted
33591	33591-US-PAT	12/710457	2010/0213044	8178808	Granted
33591	33591-US-PRV	61/154905			Converted
33595	33595-US-CNT	13/362744	2012/0140684	8687596	Granted
33595	33595-US-PAT	12/175093	2010/0014454	8125956	Granted
33605	33605-US-DES	29/318039		D603400	Granted
33605	33605-US-PAT	12/182332	2009/0280871		Abandoned
33605	33605-US-PRV	61/052545			Converted
33624	33624-US-CNT	13/545759	2013/0012163	8774763	Granted
33624	33624-US-PAT	12/179728	2010/0022235	8224290	Granted
33625	33625-US-CNT	13/665831	2013/0061317	9332106	Granted
33625	33625-US-PAT	12/362536	2010/0197352	8326358	Granted
33631	33631-US-CNT	15/713436	2018/0075433	10510061	Granted
33631	33631-US-PAT	12/393920	2010/0217682		Abandoned
33635	33635-US-CNT	14/459492	2014/0357242	9191433	Granted
33635	33635-US-CNT[2]	14/881986	2016/0034124	10139994	Granted
33635	33635-US-PAT	13/270090	2013/0090097	8818339	Granted
33637	33637-US-PAT	12/647094	2010/0262579		Abandoned
33646	33646-US-CNT	13/620401	2013/0009748	8618911	Granted
33646	33646-US-PAT	12/325623			Abandoned
33646	33646-US-PAT[2]	12/558927	2010/0134248	8330577	Granted
33647	33647-US-CNT	13/738456	2013/0132732	8812864	Granted
33647	33647-US-CNT[2]	14/446452	2014/0337636	9262616	Granted
33647	33647-US-PAT	12/325602	2010/0138666	8370640	Granted
33648	33648-US-CNT	13/586957	2012/0311559	8914473	Granted
33648	33648-US-PAT	12/819987	2011/0314462	8307095	Granted
33649	33649-US-CNT	13/307544	2012/0309334	8452237	Granted
33649	33649-US-PAT	12/394764	2010/0222019	8090319	Granted
33657	33657-US-CNT	13/616561	2013/0008955		Abandoned
33657	33657-US-PAT	12/628293	2010/0140348	8292165	Granted
33657	33657-US-PRV	61/118861			Converted
33661	33661-US-CNT	13/906484	2013/0268867	8826149	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33661	33661-US-CNT[2]	14/328927	2014/0325387	9444771	Granted
33661	33661-US-PAT	12/394310	2010/0223561	8479106	Granted
33665	33665-US-PAT	12/394960	2010/0222116	8103322	Granted
33670	33670-US-CNT	13/434265	2012/0198236	8464062	Granted
33670	33670-US-CNT[2]	13/888591	2013/0246794	9049006	Granted
33670	33670-US-PAT	12/420387	2010/0262828	8171292	Granted
33670-1	33670-1-US-CNT	13/491769	2012/0246706	8972731	Granted
33670-1	33670-1-US-PAT	12/420421	2010/0262829	8214645	Granted
33676	33676-US-CNT	13/936478	2013/0308779	8917870	Granted
33676	33676-US-PAT	12/713233	2011/0213977	8510561	Granted
33677	33677-US-PAT	12/420150	2010/0262660	8966054	Granted
33678	33678-US-CNT	14/255736	2014/0228033	9282492	Granted
33678	33678-US-CNT[2]	15/063162	2016/0262062	9554306	Granted
33678	33678-US-PAT	12/463160	2009/0280815	8730909	Granted
33678	33678-US-PRV	61/052192			Converted
33680	33680-US-CNT	14/956714	2016/0098974		Abandoned
33680	33680-US-PAT	12/359443	2010/0188431	9208754	Granted
33686	33686-US-CNT	13/466482	2012/0218958	9100893	Granted
33686	33686-US-PAT	12/463166	2009/0285170	8189524	Granted
33686	33686-US-PRV	61/052087			Converted
33687	33687-US-CNT	13/532295			Abandoned
33687	33687-US-PAT	12/463169	2009/0286539	8208443	Granted
33687	33687-US-PRV	61/052194			Converted
33693	33693-US-PAT	12/474473	2010/0017607	8667271	Granted
33693	33693-US-PRV	61/080922			Converted
33696	33696-US-CNT	13/627041	2013/0031362	8826009	Granted
33696	33696-US-CNT[2]	14/455266	2015/0019863	9300654	Granted
33696	33696-US-PAT	12/256082	2010/0100728	8296563	Granted
33697	33697-US-CIP	12/363800	2010/0029337	8190212	Granted
33697	33697-US-CNT	13/477215	2012/0231851	8452340	Granted
33697	33697-US-PRV	61/052434			Converted
33702	33702-US-PAT	12/478243	2010/0310073	8538022	Granted
33710	33710-US-PAT	12/395218	2009/0286521	8462679	Granted
33710	33710-US-PRV	61/127833			No Further Filings
33711	33711-US-PAT	12/395297	2009/0286535	8983458	Granted
33711	33711-US-PRV	61/127837			Converted
33770	33770-US-PAT	12/394120	2010/0222078	9164175	Granted
33771	33771-US-CNT	13/607152	2012/0327808	9124404	Granted
33771	33771-US-PAT	12/565546	2010/0075660	8331253	Granted
33771	33771-US-PRV	61/100146			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33783	33783-US-PAT	12/463644	2009/0282463	9998422	Granted
33783	33783-US-PRV	61/052635			Converted
33783	33783-US-PRV2	61/052638			Converted
33786	33786-US-CNT	13/492088	2012/0252421	8331917	Abandoned
33786	33786-US-CNT[2]	13/708063	2013/0102296	8538395	Granted
33786	33786-US-PAT	12/713200	2011/0212712	8208911	Abandoned
33792	33792-US-PAT	12/392236	2010/0217838	8346893	Granted
33797	33797-US-PAT	12/189455	2010/0036737		Abandoned
33798	33798-US-PAT	12/189474	2010/0036711		Abandoned
33802	33802-US-DES	29/329927		D612372	Granted
33809-1	33809-1-US-PAT	12/177101	2009/0282057	8095566	Granted
33809-1	33809-1-US-PRV	61/052633			Converted
33809-2	33809-2-US-CNT	13/335839	2012/0096056	8572135	Granted
33809-2	33809-2-US-CNT[2]	14/049740	2014/0040216	9135281	Granted
33809-2	33809-2-US-PAT	12/177105	2009/0282077	8086651	Granted
33809-2	33809-2-US-PRV	61/127796			Converted
33809-3	33809-3-US-PAT	12/177112	2009/0282078		Abandoned
33809-3	33809-3-US-PRV	61/052640			Converted
33809-4	33809-4-US-PAT	12/177116	2009/0282050	10552384	Granted
33809-4	33809-4-US-PRV	61/127813			Converted
33809-5	33809-5-US-CNT	14/246927	2014/0222972	9986013	Granted
33809-5	33809-5-US-PAT	12/177137	2009/0282088	8706690	Granted
33809-6	33809-6-US-PAT	12/177118	2009/0282020	8122037	Granted
33815	33815-US-DIV	13/532895	2012/0269132	8849936	Granted
33815	33815-US-PAT	11/696282	2008/0247348	8224919	Granted
33816	33816-US-PAT	12/610465	2011/0105188		Abandoned
33818	33818-US-CNT	13/864580	2013/0231164		Abandoned
33818	33818-US-PAT	12/393187	2010/0216511	8457688	Granted
33820	33820-US-CNT	13/403668	2012/0149434		Abandoned
33820	33820-US-PAT	12/607908	2011/0098085	8180397	Abandoned
33833	33833-US-CNT	13/185537	2011/0276708	8379514	Granted
33833	33833-US-PAT	12/395355	2010/0220586	8023406	Granted
33844	33844-US-CNT	13/611956	2013/0003685	8429477	Granted
33844	33844-US-CNT[2]	13/790392	2013/0188586	8612818	Granted
33844	33844-US-PAT	12/479610	2009/0307556	8307250	Granted
33844	33844-US-PRV	61/059468			Converted
33854	33854-US-PAT	12/394238	2010/0222115	8126521	Granted
33855	33855-US-PAT	12/355205	2010/0182135		Abandoned
33859	33859-US-PAT	12/620017	2011/0117969		Abandoned
33860	33860-US-PAT	12/620052	2011/0115819		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33861	33861-US-PAT	12/394951	2010/0220065		Abandoned
33865	33865-US-CNT	13/336798	2012/0165018	8787316	Granted
33865	33865-US-CNT[2]	13/336978	2012/0093129		Abandoned
33865	33865-US-CNT[3]	14/336804	2014/0364121	9008044	Granted
33865	33865-US-PAT	12/487446	2009/0316656	8085731	Granted
33865	33865-US-PRV	61/073742			Converted
33866	33866-US-CNT	13/530609	2012/0257512	8687600	Granted
33866	33866-US-PAT	12/509002	2010/0304738	8228876	Granted
33866	33866-US-PRV	61/182409			Converted
33873	33873-US-CNT	13/480911	2012/0229502	8384737	Granted
33873	33873-US-CNT[2]	13/743991	2013/0127871	8624919	Granted
33873	33873-US-PAT	12/429414	2010/0002007	8207988	Granted
33873	33873-US-PRV	61/078247			Converted
33886	33886-US-PAT	12/246836	2010/0088653		Abandoned
33888	33888-US-CNT	13/548538	2012/0284620	9280261	Granted
33888	33888-US-CNT[2]	15/059466	2016/0188135	10331299	Granted
33888	33888-US-PAT	12/498627	2010/0088639	8245143	Granted
33888	33888-US-PRV	61/103744			Converted
33894	33894-US-CNT	14/025198	2014/0010120	9525779	Granted
33894	33894-US-PAT	12/882915	2012/0066736	8561149	Granted
33895	33895-US-CNT	13/536940	2012/0263287	8861703	Granted
33895	33895-US-CNT[2]	14/503194	2015/0078543	9225839	Granted
33895	33895-US-PAT	12/394377	2010/0220846	8238537	Granted
33904	33904-US-PAT	12/395027	2010/0223095	8577715	Granted
33907	33907-US-PAT	12/463006	2010/0283746	8253705	Granted
33910	33910-US-PAT	12/391032	2010/0216513		Abandoned
33916	33916-US-PAT	12/635208	2011/0145472	8621169	Granted
33918	33918-US-PAT	12/261146	2010/0110016	8279183	Granted
33919	33919-US-PAT	12/703052	2011/0196884		Abandoned
33920	33920-US-PAT	12/188925	2010/0037238	9882769	Granted
33927	33927-US-PAT	12/490095	2009/0316690	8363643	Granted
33927	33927-US-PRV	61/074934			Converted
33930	33930-US-PAT	12/342502	2010/0156814		Abandoned
33938	33938-US-CNT	15/238943	2016/0359525	10243618	Granted
33938	33938-US-PAT	12/565846	2011/0070825	9455768	Granted
33940	33940-US-CNT	13/684824	2013/0078922	8463186	Granted
33940	33940-US-PAT	12/565938	2011/0070837	8340577	Granted
33941	33941-US-CNT	13/190423	2011/0281559	8346312	Granted
33941	33941-US-PAT	12/390121	2010/0056228	8014831	Granted
33941	33941-US-PRV	61/092021			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
33944	33944-US-PAT	12/548533	2011/0050619	8179376	Granted
33951	33951-US-PAT	12/565893	2011/0070828	9769300	Granted
33951	33951-US-PAT[2]	12/889642	2011/0070834	9246555	Granted
33959	33959-US-CNT	13/327502	2012/0088408	8296473	Granted
33959	33959-US-CNT[2]	13/619760	2013/0012055	8626961	Granted
33959	33959-US-PAT	12/394192	2010/0220329	8103807	Granted
33967	33967-US-PAT	12/455454	2010/0164879	8319742	Granted
33967	33967-US-PRV	61/091854			Converted
33970	33970-US-PAT	12/565853	2011/0070826	9100064	Granted
33973	33973-US-PAT	12/885067	2012/0071087	8422948	Granted
33978	33978-US-PAT	12/185255	2010/0029316	8233931	Granted
33991	33991-US-PAT	12/574295	2010/0095234		Abandoned
33991	33991-US-PRV	61/103467			Converted
33997	33997-US-DES	29/326902		D638410	Granted
34000	34000-US-PAT	12/535566	2010/0031111	8230291	Granted
34000	34000-US-PRV	61/086074			Converted
34001	34001-US-PAT	12/251231	2010/0095109	8473733	Abandoned
34010	34010-US-PAT	12/323664	2010/0127938	8044863	Granted
34011	34011-US-PAT	12/393468	2010/0217521	8515666	Granted
34012	34012-US-PAT	12/635988	2010/0154036	8578451	Granted
34012	34012-US-PRV	61/122052			Converted
34017	34017-US-PAT	12/341034	2010/0159996	8121652	Granted
34022	34022-US-PAT	12/247506	2010/0085314		Abandoned
34031	34031-US-PAT	12/797732	2011/0305338	9621716	Granted
34032	34032-US-PAT	12/904336	2012/0094596		Abandoned
34032	34032-US-PAT[2]	13/241567	2012/0094598	8831514	Granted
34032-1	34032-1-US-PAT	12/904365	2012/0094597	8750793	Granted
34037	34037-US-PAT	12/558245	2010/0067501	8300608	Abandoned
34037	34037-US-PRV	61/096648			Converted
34040	34040-US-PAT	12/266808	2010/0119352	7895734	Abandoned
34041	34041-US-PAT	12/394136	2010/0222046	8850365	Granted
34056	34056-US-CNT	13/177791	2011/0269439	9680777	Granted
34056	34056-US-CNT[2]	14/864180	2016/0014056	10666585	Granted
34056	34056-US-PAT	12/484494	2010/0318615	7984105	Granted
34057	34057-US-PAT	12/394370	2010/0222099	8351894	Granted
34060	34060-US-PAT	12/394793	2010/0222035	8934406	Granted
34064	34064-US-CNT	16/242837	2019/0149496	10992613	Granted
34064	34064-US-PAT	12/508640	2010/0115038		Abandoned
34064	34064-US-PRV	61/085561			Converted
34068	34068-US-PAT	12/762999	2011/0258576	8887086	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
34076	34076-US-PAT	12/262334	2010/0115408	8171419	Granted
34082	34082-US-PAT	12/252574	2010/0100617	8751584	Granted
34091	34091-US-CNT	13/606889	2013/0007456	8904179	Granted
34091	34091-US-PAT	12/503121	2011/0016322	8296567	Granted
34092	34092-US-CNT	13/467355	2012/0220350	9160833	Granted
34092	34092-US-PAT	12/393146	2010/0216521	8200292	Granted
34094	34094-US-CNT	13/620482	2013/0009901	8463329	Granted
34094	34094-US-CNT[2]	13/890435	2013/0241861	8744530	Granted
34094	34094-US-PAT	12/325402	2010/0137031	8315672	Granted
34095	34095-US-PAT	12/246807	2010/0087228	8619041	Granted
34099	34099-US-PAT	12/394307	2010/0088596	9395867	Granted
34099	34099-US-PRV	61/103910			Converted
34103	34103-US-PAT	12/574824	2011/0083110	8347221	Granted
34110	34110-US-PAT	12/959013	2012/0143541	9146282	Granted
34116	34116-US-CNT	14/669587	2015/0199195	10318267	Granted
34116	34116-US-CNT[2]	16/436586	2019/0294430	10942727	Granted
34116	34116-US-PAT	12/644079	2011/0154135		Abandoned
34122	34122-US-PAT	12/708355	2011/0202588	8799349	Granted
34125	34125-US-PAT	12/209798	2010/0070606	9002975	Granted
34125	34125-US-PCT[2]	13/063735	2011/0167458		Abandoned
34127	34127-US-CNT	13/355269	2012/0117175	8312092	Granted
34127	34127-US-PAT	12/252221	2010/0094993	8103730	Granted
34130	34130-US-PAT	12/756747	2011/0248948		Abandoned
34134	34134-US-CNT	15/235979	2016/0349912		Abandoned
34134	34134-US-PAT	12/756761	2011/0248916	9417695	Granted
34135	34135-US-CNT	13/526430	2012/0263213	8526535	Granted
34135	34135-US-CNT[2]	13/956408	2013/0315345	8750417	Granted
34135	34135-US-PAT	12/388532	2010/0208848	8223885	Granted
34136	34136-US-CNT	13/610713	2012/0327011	8553006	Granted
34136	34136-US-PAT	12/494524	2010/0328230	8310457	Granted
34137	34137-US-PAT	12/497724	2011/0001707	8310458	Granted
34142	34142-US-CNT	13/685249	2013/0078974		Abandoned
34142	34142-US-PAT	12/429665	2010/0274563	8340969	Granted
34145	34145-US-PAT	12/366678	2010/0203923	8126508	Abandoned
34146	34146-US-PAT	12/395426	2010/0223471	9059979	Granted
34147	34147-US-CNT	13/745021	2013/0144788	8954744	Granted
34147	34147-US-PAT	12/331042	2010/0144314	8386773	Granted
34148	34148-US-CNT	14/867453	2016/0021562	10542453	Granted
34148	34148-US-PAT	12/802765	2011/0307560	9148302	Granted
34158	34158-US-PAT	12/856783	2012/0040610	8787830	Granted

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34163	34163-US-PAT	12/409543	2010/0250681	8880619	Granted
34169	34169-US-CNT	13/614162	2013/0013976		Abandoned
34169	34169-US-PAT	12/394228	2010/0223534	8327234	Granted
34171	34171-US-CNT	13/439014	2012/0188165	8581843	Granted
34171	34171-US-PAT	12/390984	2010/0097319	8174498	Granted
34171	34171-US-PRV	61/106228			Converted
34174	34174-US-CNT	15/144583	2016/0323066	10256945	Granted
34174	34174-US-PAT	12/394162	2010/0223524	9331717	Granted
34181	34181-US-PAT	12/885775	2012/0072825	8661335	Granted
34184	34184-US-CNT	14/057526	2014/0089785	9836438	Granted
34184	34184-US-PAT	12/885816	2012/0072826	8566702	Granted
34192	34192-US-PAT	12/338177	2010/0085217	8436752	Granted
34192	34192-US-PRV	61/103791			Converted
34210	34210-US-PAT	12/499169	2011/0006952		Abandoned
34211	34211-US-CNT	13/953852	2013/0318184	9369412	Granted
34211	34211-US-PAT	12/412676	2010/0250705	8527608	Granted
34219	34219-US-PAT	12/645873	2010/0262664	8429236	Granted
34219	34219-US-PRV	61/167772			Converted
34232	34232-US-PAT	12/730892	2011/0238779	8495235	Granted
34249	34249-US-CNT	13/169089	2011/0266339	8157161	Granted
34249	34249-US-CNT[2]	13/419474	2012/0168497	8353447	Granted
34249	34249-US-PAT	12/610445	2011/0101086	7988037	Granted
34252	34252-US-PAT	12/504907	2011/0016413	8719717	Granted
34254	34254-US-CNT	14/529681	2015/0050887	9185735	Granted
34254	34254-US-CNT[2]	14/877346	2016/0029154	9467802	Granted
34254	34254-US-CNT[3]	15/245285	2016/0366542	10623934	Granted
34254	34254-US-CNT[4]	16/847012	2020/0245117	11089464	Granted
34254	34254-US-PAT	12/572386	2011/0081860	8879994	Granted
34257	34257-US-CNT	13/489803	2012/0244840	8354937	Granted
34257	34257-US-PAT	12/367020	2010/0201478	8217800	Granted
34258	34258-US-PAT	12/806591	2012/0047212	9785917	Granted
34264	34264-US-PAT	12/393671	2010/0215177	8379860	Granted
34265	34265-US-CNT	13/465582	2012/0220337	9301253	Granted
34265	34265-US-PAT	12/417834	2010/0255891	8190200	Granted
34266	34266-US-CNT	13/678084	2013/0073846	8601558	Granted
34266	34266-US-PAT	12/410597	2010/0100731	8341709	Granted
34266	34266-US-PRV	61/107519			Converted
34267	34267-US-CNT	13/542180	2012/0276907	8600381	Granted
34267	34267-US-CNT[2]	14/088766	2014/0080487	9060317	Granted
34267	34267-US-PAT	12/356710	2010/0184429	8249591	Granted

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34272	34272-US-PAT	12/943821	2012/0115070		Abandoned
34278	34278-US-PAT	12/478894	2010/0310947	8852819	Granted
34282	34282-US-CNT	13/555335	2012/0290835	8826007	Granted
34282	34282-US-PAT	12/405366	2010/0241851	8255685	Granted
34284	34284-US-PAT	12/561424	2010/0077027	9130966	Granted
34284	34284-US-PRV	61/097745			Converted
34286	34286-US-CNT	13/447418	2012/0200462	9000984	Granted
34286	34286-US-PAT	12/364932	2010/0194642	8179324	Granted
34287	34287-US-CNT	13/244725	2012/0014342	8208416	Granted
34287	34287-US-CNT[2]	13/743557	2013/0128871	8441970	Granted
34287	34287-US-CNT[3]	14/479470	2014/0376525	9030978	Granted
34287	34287-US-PAT	12/569340	2010/0080155	8891418	Granted
34287	34287-US-PRV	61/100778			Converted
34287	34287-US-PRV2	61/110785			Converted
34287-1	34287-1-US-PAT	12/818752	2010/0325226	8750218	Granted
34288	34288-US-PAT	12/370807	2010/0210326	8150481	Granted
34293	34293-US-CNT	13/740844	2013/0130742	9185525	Granted
34293	34293-US-PAT	12/388006	2010/0210301	8355751	Granted
34303	34303-US-PAT	12/493377	2010/0100585	8458246	Granted
34303	34303-US-PRV	61/106594			Converted
34308	34308-US-CNT	13/337353	2012/0100886	8305275	Granted
34308	34308-US-CNT[2]	13/610404	2013/0002498	9007267	Granted
34308	34308-US-PAT	12/365908	2010/0194647	8106838	Granted
34311	34311-US-CNT	13/767824	2013/0155104	8624930	Granted
34311	34311-US-PAT	12/580600	2010/0097399	8400478	Granted
34311	34311-US-PRV	61/106855			Converted
34312	34312-US-PAT	12/580583	2011/0090245	8471867	Granted
34312	34312-US-PRV	61/106846			Converted
34314	34314-US-CNT	13/405767	2012/0157027	9002292	Granted
34314	34314-US-PAT	12/394464	2010/0222001	8160503	Granted
34324	34324-US-CNT	13/560163	2012/0294215	8483750	Granted
34324	34324-US-CNT[2]	13/935818	2013/0295927	8768407	Granted
34324	34324-US-PAT	12/612046	2011/0103318	8254985	Granted
34328	34328-US-PAT	12/430161	2010/0088696		Abandoned
34328	34328-US-PRV	61/103747			Converted
34335	34335-US-PAT	12/389485	2010/0216433	8676168	Granted
34352	34352-US-PAT	12/276946	2010/0127936	7911392	Granted
34353	34353-US-CNT	13/672096	2013/0063360	8471821	Granted
34353	34353-US-PAT	12/394330	2010/0223582	8339367	Granted
34364	34364-US-CNT	13/608129	2012/0330891	8880465	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
34364	34364-US-PAT	12/571948	2010/0100532	8285674	Granted
34364	34364-US-PRV	61/107410			Converted
34374	34374-US-PAT	12/615528	2010/0142517		Abandoned
34374	34374-US-PRV	61/112873			Converted
34374-1	34374-1-US-PAT	12/615531	2010/0154030	8537822	Granted
34374-2	34374-2-US-PAT	12/615532	2010/0154031	8875274	Granted
34374-3	34374-3-US-CNT	14/839161	2015/0373125	9491243	Granted
34374-3	34374-3-US-CNT[2]	15/339426	2017/0048330	9967348	Granted
34374-3	34374-3-US-PAT	12/615536	2010/0146130	9154399	Granted
34376	34376-US-PAT	12/575958	2010/0085944	8625539	Granted
34376	34376-US-PRV	61/103760			Converted
34385	34385-US-PAT	12/551830	2010/0087184		Abandoned
34385	34385-US-PRV	61/103778			Converted
34386	34386-US-CNT	13/487995		8364137	Granted
34386	34386-US-CNT[2]	13/718480	2013/0110989	8706102	Granted
34386	34386-US-CNT[3]	14/223474	2014/0206332	9386396	Granted
34386	34386-US-CNT[4]	15/197400	2016/0309280	9894461	Granted
34386	34386-US-CNT[5]	15/863334	2018/0132084	10097975	Granted
34386	34386-US-CNT[6]	16/138401	2019/0028868	10708736	Granted
34386	34386-US-CNT[7]	16/921895	2020/0336876	11122403	Granted
34386	34386-US-CNT[8]	17/473722	2021/0409921		Publication of Application
34386	34386-US-PAT	12/539744	2010/0087181	8213921	Granted
34386	34386-US-PRV	61/103782			Converted
34387	34387-US-CNT	14/028582	2014/0019637	9021463	Granted
34387	34387-US-PAT	12/579796	2011/0093844	8561055	Granted
34388	34388-US-CNT	13/285660	2012/0047297	8407379	Granted
34388	34388-US-CNT[2]	13/774898	2013/0179608	8880761	Granted
34388	34388-US-PAT	12/581294	2011/0093628	8073995	Granted
34389	34389-US-PAT	12/703945	2011/0193791		Abandoned
34405	34405-US-CNT	16/119386	2018/0374061		Abandoned
34405	34405-US-PAT	12/572687	2010/0131347		Abandoned
34405	34405-US-PRV	61/117516			Converted
34426	34426-US-PAT	13/015033	2012/0196055		Abandoned
34426-1	34426-1-US-DES	29/384188		D648806	Granted
34428	34428-US-PAT	12/363177	2010/0198886	9002787	Granted
34440	34440-US-PAT	12/507131	2011/0022313	8494767	Granted
34443	34443-US-CNT	13/610630	2012/0329518	9172790	Granted
34443	34443-US-PAT	12/394100	2010/0222098	8280434	Granted
34446	34446-US-PAT	12/611800	2010/0110989	8565242	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
34446	34446-US-PRV	61/111236			Converted
34450	34450-US-PAT	12/578903	2011/0084913	8766926	Granted
34461	34461-US-PAT	12/478996	2010/0311477	9100470	Granted
34470	34470-US-CNT	13/251019	2012/0029841	8549892	Granted
34470	34470-US-PAT	12/488829	2010/0319434	8061182	Granted
34475	34475-US-CNT	14/324643	2014/0325325	9613010	Granted
34475	34475-US-PAT	12/432290	2010/0281057	8775467	Granted
34476	34476-US-PAT	12/616024	2010/0118752	9125208	Granted
34476	34476-US-PRV	61/113094			Converted
34477	34477-US-CNT	13/973745	2014/0010118	9282444	Granted
34477	34477-US-PAT	12/608905	2010/0103927		Abandoned
34477	34477-US-PRV	61/109396			Converted
34477	34477-US-PRV[2]	61/112729			Converted
34480	34480-US-PAT	12/471671	2010/0304799		Abandoned
34488	34488-US-PAT	13/118725	2012/0309388	8565736	Granted
34505	34505-US-CNT	13/244833	2012/0014344	8432845	Granted
34505	34505-US-CNT[2]	13/776468	2013/0163494	8879454	Granted
34505	34505-US-PAT	12/637461	2010/0150091	8385241	Granted
34505	34505-US-PRV	61/122481			Converted
34512	34512-US-CNT	13/613882	2013/0010900	8571145	Granted
34512	34512-US-PAT	12/574734	2011/0080979	8300737	Granted
34523	34523-US-CNT	14/281140	2014/0256383	9063885	Granted
34523	34523-US-PAT	12/551932	2011/0053649	8743128	Granted
34528	34528-US-PAT	12/643160	2011/0154041	9525999	Granted
34529	34529-US-CIP	12/578082	2010/0156843	8384679	Granted
34530	34530-US-PAT	12/485170	2010/0317295	8706073	Granted
34534	34534-US-PAT	12/854286	2012/0039057	8320131	Granted
34535	34535-US-PAT	12/612725	2011/0102451	8508465	Granted
34540	34540-US-PAT	12/437171	2010/0285850	8260377	Granted
34549	34549-US-CNT	15/392567	2017/0127271	9924351	Granted
34549	34549-US-PAT	12/855540	2011/0038372		Abandoned
34549	34549-US-PRV	61/233355			Converted
34558	34558-US-PAT	12/393706	2010/0217809		Abandoned
34564	34564-US-CNT	13/865810	2013/0237228	9191878	Granted
34564	34564-US-CNT[2]	14/878613	2016/0028473	9923628	Granted
34564	34564-US-PAT	12/340418	2010/0157845	8446856	Granted
34565	34565-US-CNT	13/842584	2013/0223326	8856607	Granted
34565	34565-US-CNT[2]	14/465528	2014/0362755	9379804	Granted
34565	34565-US-PAT	12/337229	2010/0153806	8402334	Granted
34566	34566-US-CNT	13/716839	2013/0100912	8824359	Granted

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34566	34566-US-PAT	12/340412	2010/0159935	8335466	Granted
34567	34567-US-CNT	13/548817	2012/0281549	8837303	Granted
34567	34567-US-CNT[2]	14/298629	2014/0286234	9571179	Granted
34567	34567-US-PAT	12/337207	2010/0150173	8311061	Granted
34571	34571-US-CNT	13/608335	2013/0003681	9220034	Granted
34571	34571-US-PAT	12/626325	2010/0135181	8264992	Granted
34571	34571-US-PRV	61/118143			Converted
34582	34582-US-PAT	12/556927	2011/0059286	8100682	Abandoned
34589	34589-US-CNT	13/349343	2012/0106768	8459403	Granted
34589	34589-US-PAT	12/544335	2011/0042161	8118134	Granted
34595	34595-US-PAT	12/507427	2011/0018904	9305232	Granted
34596	34596-US-PAT	12/625381	2010/0128002	9116569	Granted
34596	34596-US-PRV	61/118406			Converted
34597	34597-US-PAT	12/480937	2010/0309129		Abandoned
34601	34601-US-CNT	13/951715	2013/0311620	8966177	Granted
34601	34601-US-PAT	12/394000	2010/0217934	8499118	Granted
34614	34614-US-CNT	13/887292	2013/0246043	8655642	Granted
34614	34614-US-PAT	12/437645	2009/0299727	8515730	Granted
34620	34620-US-PAT	12/790145	2011/0294484	8626142	Granted
34624	34624-US-PAT	13/249700	2013/0083208	9013581	Granted
34626-2	34626-2-US-CNT	13/899690	2013/0276145		Abandoned
34626-2	34626-2-US-PAT	12/618912	2010/0217982	8452959	Granted
34626-2	34626-2-US-PRV	61/155013			Converted
34626-3	34626-3-US-PAT	12/619013	2010/0217615	8060572	Granted
34626-3	34626-3-US-PRV	61/155017			Converted
34629	34629-US-PAT	12/627208	2011/0128227		Abandoned
34630	34630-US-PAT	12/413919	2010/0146383	9715557	Granted
34630	34630-US-PRV	61/120986			Converted
34631	34631-US-PAT	12/414094	2010/0146399		Abandoned
34631	34631-US-PRV	61/120960			Converted
34632	34632-US-PAT	12/413761	2010/0145973	9317303	Granted
34632	34632-US-PRV	61/120983			Converted
34633	34633-US-PAT	12/413925	2010/0251125	8700982	Granted
34634	34634-US-PAT	12/414282	2010/0146449		Abandoned
34634	34634-US-PRV	61/121017			Converted
34636	34636-US-PAT	12/627174	2011/0128230	8599130	Granted
34644	34644-US-PAT	12/510397	2011/0024276		Abandoned
34645	34645-US-PAT	12/766545	2011/0260984	8552997	Granted
34654	34654-US-PAT	12/790015	2011/0291951	8669946	Granted
34655	34655-US-PAT	12/337235	2010-0150103	8355388	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
34656	34656-US-CNT	13/221583	2011/0310912		Abandoned
34656	34656-US-DIV	12/916214	2011/0044234	9484989	Granted
34656	34656-US-DIV[2]	13/221584	2011/0310897		Abandoned
34656	34656-US-PAT	12/337214	2010/0150177	8040904	Granted
34657	34657-US-DIV	13/216819	2011/0305191	8699547	Granted
34657	34657-US-PAT	12/340432	2010/0158142	8265128	Granted
34663	34663-US-CNT	13/475392	2012/0231804	8447351	Granted
34663	34663-US-PAT	12/551711	2011/0053519	8213974	Granted
34666	34666-US-PAT	12/785331	2011/0289364	8117506	Granted
34669	34669-US-PAT	12/638762	2010/0153804	8448036	Granted
34669	34669-US-PRV	61/122915			Converted
34672	34672-US-PAT	12/618183	2011/0115716	8350818	Granted
34677	34677-US-PAT	12/500699	2011/0009174	8331999	Granted
34685	34685-US-PAT	12/547735	2011/0050437	8847776	Granted
34687	34687-US-CNT	13/207513	2011/0292585	8599545	Granted
34687	34687-US-PAT	12/401334	2010/0232102	8023256	Granted
34691	34691-US-PAT	12/491468	2010/0328111	8692694	Granted
34692	34692-US-CNT	13/654997	2013/0040641	8520555	Granted
34692	34692-US-CNT[2]	13/951848	2013/0310033	8730846	Granted
34692	34692-US-PAT	12/710550	2011/0205932	8315189	Granted
34707	34707-US-PAT	12/350752	2010/0173668		Abandoned
34708	34708-US-PAT	12/364635	2010/0197353	8406816	Granted
34709	34709-US-PAT	12/572605	2011/0080155	8862913	Granted
34715	34715-US-PAT	12/764298	2011/0260829		Abandoned
34716	34716-US-PAT	12/349391	2010/0173672	8583176	Granted
34718	34718-US-CNT	14/222859	2014/0202839	9208970	Granted
34718	34718-US-PAT	12/393153	2010/0213043	8723062	Granted
34719	34719-US-CNT	13/620350	2013/0018976	8495159	Granted
34719	34719-US-PAT	12/709007	2010/0217815	8326932	Granted
34719	34719-US-PRV	61/154291			Converted
34722	34722-US-PAT	12/635526	2010/0182950	8644244	Granted
34722	34722-US-PRV	61/121992			Converted
34727	34727-US-CNT	13/432287	2012/0182262		Abandoned
34727	34727-US-PAT	12/506309	2011/0022607	8171036	Granted
34740	34740-US-CNT	14/599200	2015/0139014	9826426	Granted
34740	34740-US-CNT[2]	15/818307	2018/0077597	10462694	Granted
34740	34740-US-PAT	12/355611	2010/0182915	8948027	Granted
34741	34741-US-PAT	13/042500	2012/0230304	8724603	Granted
34741-1	34741-1-US-CNT	14/997651	2016/0135205		Abandoned
34741-1	34741-1-US-PAT	13/042511	2012/0230305		Abandoned

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34744-1	34744-1-US-PAT	12/949173	2011/0116474	8675576	Abandoned
34744-1	34744-1-US-PRV	61/262471			No Further Filings
34746	34746-US-PAT	12/617993	2011/0115652	8294601	Granted
34750	34750-US-CNT	13/461893	2012/0214533	8385988	Granted
34750	34750-US-CNT[2]	13/756698	2013/0170419	8874177	Granted
34750	34750-US-PAT	12/713235	2011/0211511	8195251	Granted
34752	34752-US-DIV	14/168315	2014/0148131	8881238	Granted
34752	34752-US-PAT	12/900774	2011/0088078	8695063	Granted
34752	34752-US-PRV	61/250544			Converted
34753	34753-US-CIP	12/560511	2010/0213041	8263887	Granted
34759	34759-US-PAT	12/500733	2011/0006929	8896470	Granted
34765	34765-US-PAT	12/571626	2011/0080411	8405663	Granted
34767	34767-US-PAT	12/615699	2011/0113379	8910083	Granted
34778	34778-US-CNT	13/301259	2012/0068905	8933842	Granted
34778	34778-US-PAT	12/405955	2010/0238072	8085202	Granted
34785	34785-US-CNT	13/872241	2013/0237206		Abandoned
34785	34785-US-PAT	12/475278	2010/0190475	8457603	Granted
34785	34785-US-PRV	61/146965			Converted
34790	34790-US-PAT	12/488893	2010/0321299		Abandoned
34793-1	34793-1-US-PAT	12/494503	2010/0328052	8416065	Granted
34794	34794-US-PAT	12/576616	2011/0088089	9386023	Granted
34801	34801-US-CNT	13/848757	2013/0208891	9030985	Granted
34801	34801-US-PAT	12/758898	2011/0085447	8427991	Granted
34801	34801-US-PRV	61/250549			Converted
34803	34803-US-PAT	13/602391	2013/0058268	8837513	Abandoned
34803	34803-US-PRV	61/531797			Converted
34807	34807-US-CNT	13/445437	2012/0202470	8340647	Granted
34807	34807-US-CNT[2]	13/684221	2013/0084841	8538397	Granted
34807	34807-US-PAT	12/754790	2011/0244835	8180331	Granted
34809	34809-US-CNT	13/607427	2012/0329495	8494579	Granted
34809	34809-US-CNT[2]	13/919410	2013/0281135	8838158	Granted
34809	34809-US-PAT	12/533125	2011/0028167	8320954	Granted
34812	34812-US-PAT	12/413264	2010/0244464	8297666	Granted
34824	34824-US-PAT	12/830372	2011/0189985	8452291	Granted
34824	34824-US-PRV	61/300617			Converted
34825	34825-US-PAT	12/577952	2011/0086681	8332000	Granted
34830	34830-US-DIV	16/017257	2018/0310164		Abandoned
34830	34830-US-PAT	12/803531	2011/0319074	10009752	Granted
34831	34831-US-PAT	12/771883	2011/0267281	8698761	Granted
34838	34838-US-PAT	12/542230	2011/0037622	8493242	Granted

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34840	34840-US-CNT	13/847208	2013/0216006	8705669	Granted
34840	34840-US-PAT	12/713502	2011/0211659	8433004	Granted
34840-1	34840-1-US-DIV	13/746561	2013/0139041	8589758	Granted
34840-1	34840-1-US-PAT	12/713600	2011/0214040	8402342	Granted
34847	34847-US-PAT	12/615653	2011/0109561		Abandoned
34849	34849-US-PAT	12/713960	2011/0212724		Abandoned
34850	34850-US-PAT	12/369350	2010/0205425	8924742	Granted
34856	34856-US-PAT	12/641729	2011/0153668		Abandoned
34859	34859-US-DIV	13/347949	2012/0110295	8560802	Granted
34859	34859-US-PAT	12/489073	2010/0268878	8775770	Granted
34859	34859-US-PRV	61/169495			Converted
34863	34863-US-PAT	12/546999	2011/0054770	8352178	Granted
34875	34875-US-PAT	12/760167	2010/0287040	8694371	Granted
34875	34875-US-PRV	61/170052			Converted
34876	34876-US-PAT	12/820839	2011/0314167	9641606	Granted
34882	34882-US-PAT	12/614660	2011/0113309	8365050	Granted
34883	34883-US-PAT	12/572751	2010/0131415		Publication of Application
34884	34884-US-CNT	14/157153	2014/0137233	9563759	Granted
34884	34884-US-CNT[2]	15/425644	2017/0147804	10223513	Granted
34884	34884-US-CNT[3]	16/259384	2019/0156007	10452829	Granted
34884	34884-US-PAT	12/897886	2012/0083311	8667297	Granted
34886	34886-US-CNT	13/713157	2013/0183545	8663823	Granted
34886	34886-US-PAT	12/502349	2011/0014942	8357460	Granted
34907	34907-US-PAT	12/569393	2011/0074790	8531461	Granted
34908	34908-US-PAT	12/571612	2011/0083100	8627220	Granted
34909	34909-US-CNT	14/202785	2014/0256350	9055403	Granted
34909	34909-US-PAT	12/420391	2010/0262915	8688779	Granted
34910	34910-US-CNT	13/596218	2012/0324013		Abandoned
34910	34910-US-PAT	12/711358	2010/0262657		Abandoned
34910	34910-US-PRV	61/167544			Converted
34911	34911-US-PAT	12/713577	2010/0262666	9349120	Granted
34911	34911-US-PRV	61/167542			Converted
34920	34920-US-PAT	12/541333	2011/0037706		Abandoned
34921	34921-US-PAT	12/494246	2010/0328173	8878737	Granted
34924-2	34924-2-US-CNT	13/429027	2012/0184267	8626683	Granted
34924-2	34924-2-US-PAT	12/426093	2010/0268674	8160976	Granted
34925	34925-US-PAT	12/635956	2011/0143736	8494503	Granted
34928	34928-US-PAT	12/631981	2011/0136485	8489032	Granted
34930	34930-US-CNT	13/693153	2013/0095897	8918150	Granted

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34930	34930-US-PAT	12/852232	2012/0034959	8340735	Granted
34931	34931-US-CNT	14/056799	2014/0045354	8801443	Granted
34931	34931-US-PAT	12/910278	2012/0099742	8771021	Granted
34932	34932-US-CNT	13/451378	2012/0241299	8698018	Granted
34932	34932-US-PAT	12/605535	2011/0094868	8183478	Granted
34936	34936-US-PAT	12/708683	2010/0251346	8959653	Granted
34936	34936-US-PRV	61/165187			Converted
34942	34942-US-CNT	14/291637	2014/0269394	8976701	Granted
34942	34942-US-PAT	12/433178	2010/0279682	8743775	Granted
34943	34943-US-PAT	12/609584	2011/0105101	8606254	Granted
34950	34950-US-PAT	12/817349	2011/0314170		Abandoned
34957	34957-US-CNT	15/145711	2016/0246379	9588589	Granted
34957	34957-US-CNT[2]	15/428030	2017/0147072	10162419	Granted
34957	34957-US-CNT[3]	16/230632	2019/0179414	10401965	Granted
34957	34957-US-PAT	12/715271	2011/0210926	9361018	Granted
34958	34958-US-PAT	12/721071	2010/0234080	8660622	Granted
34958	34958-US-PRV	61/158833			Converted
34965	34965-US-PAT	12/715278	2011/0210834	9535500	Granted
34969	34969-US-PAT	12/578908	2010/0214237	8686954	Granted
34969	34969-US-PRV	61/154496			Converted
34979	34979-US-CNT	13/612342	2013/0007115	8533263	Granted
34979	34979-US-PAT	12/714229	2011/0213855	8301723	Granted
34985	34985-US-CNT	13/617062	2013/0013933	8627108	Granted
34985	34985-US-PAT	12/694541	2011/0185186	8296580	Granted
34988	34988-US-PAT	12/703272	2010/0248699		Abandoned
34988	34988-US-PRV	61/165152			Converted
34995	34995-US-PAT	12/540659	2011/0040803	8396902	Granted
34995	34995-US-PAT[2]	12/722248	2011/0041068	8024665	Granted
34998	34998-US-PAT	12/704641	2010/0208805	8934543	Granted
34998	34998-US-PRV	61/152410			Converted
35001	35001-US-CIP	12/578037	2010/0156823		Abandoned
35009	35009-US-PAT	12/572644	2011/0080367	8780055	Granted
35011	35011-US-PAT	12/814187	2011/0304559		Abandoned
35014	35014-US-CNT	13/654998	2013/0037704	9041698	Granted
35014	35014-US-PAT	12/493329	2010/0328283	8319764	Granted
35035	35035-US-PAT	12/639396	2011/0143755		Abandoned
35038	35038-US-PAT	13/349716	2013/0182650	8817725	Granted
35042	35042-US-PAT	13/005667	2012/0185533		Abandoned
35045	35045-US-PAT	12/944064	2012/0120913	8792451	Granted
35050	35050-US-CNT	13/721879	2013/0106295	8797269	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35050	35050-US-PAT	12/570244	2011/0074690	8363015	Granted
35050	35050-US-PRV	61/156096			Converted
35054	35054-US-DES	29/336850		D638218	Granted
35054	35054-US-PAT	12/464635	2010/0288804	8631980	Granted
35055	35055-US-PCT	12/598785	2010/0205148	8996489	Granted
35055	35055-US-PRV	60/927738			Converted
35058	35058-US-PCT	12/809320	2011/0276657		Abandoned
35058	35058-US-PRV	61/008819			Converted
35059	35059-US-CNT	14/863949	2016/0014225	9549033	Granted
35059	35059-US-PCT	12/867295	2011/0021219	9178954	Granted
35059	35059-US-PRV	61/066058			Converted
35061	35061-US-CNT	13/406735	2012/0198008	8402107	Granted
35061	35061-US-PAT	12/435247	2009/0281874	8150934	Granted
35061	35061-US-PRV	61/051138			Converted
35063	35063-US-DIV	13/469223	2012/0225684	10728830	Granted
35063	35063-US-PAT	12/435101	2009/0280792	8204485	Granted
35063	35063-US-PRV	61/051058			Converted
35064	35064-US-CNT	13/409338	2012/0158918	8843597	Granted
35064	35064-US-PAT	12/435301	2009/0282127	8156204	Granted
35064	35064-US-PRV	61/051071			Converted
35068	35068-US-DIV	13/956476	2013/0318186	9002341	Granted
35068	35068-US-PAT	12/434964	2009/0318192	8526928	Granted
35068	35068-US-PRV	61/073427			Converted
35069	35069-US-PAT	12/435205	2010/0036908	8943122	Granted
35069	35069-US-PRV	61/086181			Converted
35070	35070-US-PAT	12/435100	2010/0070565	8868640	Granted
35070	35070-US-PRV	61/096406			Converted
35071	35071-US-CNT	13/438030	2012/0191814	8489683	Granted
35071	35071-US-PAT	12/435232	2010/0161729	8176121	Granted
35071	35071-US-PRV	61/140663			Converted
35072	35072-US-PAT	13/027986	2012/0038562	9092057	Granted
35072	35072-US-PRV	61/304544			Converted
35073	35073-US-PAT	12/780279	2011/0279380	8451255	Granted
35074	35074-US-PAT	12/791549	2011/0294485	8825018	Granted
35077	35077-US-PAT	12/630124	2011/0134042	8599137	Granted
35081	35081-US-PAT	12/722409	2010/0232546	8885575	Granted
35081	35081-US-PRV	61/160156			Converted
35083	35083-US-PAT	12/723181	2010/0254327	9001745	Granted
35083	35083-US-PRV	61/160070			Converted
35086	35086-US-PAT	12/621036	2011/0118859	8838259	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35094	35094-US-PAT	12/491032	2010/0330968	8639231	Granted
35095	35095-US-PAT	12/771955	2011/0271122	9292066	Granted
35100	35100-US-CNT	14/035178	2014/0022127	9651678	Granted
35100	35100-US-PAT	12/777546	2011/0279323	8587476	Granted
35101	35101-US-CNT	14/085605	2014/0082363	8977854	Granted
35101	35101-US-PAT	12/607319	2011/0099612	8607317	Granted
35103	35103-US-CIP	12/715209	2010/0273542	8630686	Granted
35104	35104-US-PAT	12/550175	2011/0053588	8730921	Abandoned
35106	35106-US-PAT	12/508813	2010/0241763	8954606	Granted
35106	35106-US-PRV	61/161870			Converted
35115	35115-US-PAT	12/617763	2011/0115677	8754814	Granted
35119	35119-US-PAT	12/630927	2011/0138279	8863009	Granted
35122	35122-US-PAT	12/713238	2011/0211073	8379134	Granted
35123	35123-US-PAT	12/572535	2011/0080349	8970507	Granted
35124	35124-US-PAT	12/614592	2011/0110514		Abandoned
35127	35127-US-PAT	12/713485	2011/0213843		Abandoned
35128	35128-US-PAT	12/640145	2011/0151933	8843099	Granted
35130	35130-US-CNT	16/160728	2019/0053225	10674490	Granted
35130	35130-US-CNT[2]	16/862243	2020/0260435		Publication of Application
35130	35130-US-PAT	12/722412	2010/0232346	10111211	Granted
35130	35130-US-PRV	61/160158			Converted
35131	35131-US-CNT	14/980612	2016/0113004		Abandoned
35131	35131-US-PAT	12/722417	2010/0232347	9232512	Granted
35131	35131-US-PRV	61/160163			Converted
35133	35133-US-PAT	12/763376	2010/0267405	8509841	Granted
35133	35133-US-PRV	61/171035			Converted
35138	35138-US-PAT	12/759570	2010/0260130	8472391	Granted
35138	35138-US-PRV	61/168791			Converted
35140	35140-US-CNT	13/905916	2013/0265929	9497746	Granted
35140	35140-US-PAT	12/762142	2010/0265870	8477675	Granted
35140	35140-US-PRV	61/170450			Converted
35144	35144-US-PAT	12/566826	2011/0077047	8838179	Granted
35149	35149-US-PCT	13/635138	2013/0007725		Abandoned
35149	35149-US-PRV	61/386602			Converted
35151	35151-US-PAT	12/613249	2011/0106278	8812136	Granted
35154	35154-US-PAT	12/728003	2010/0246780	9332041	Granted
35154	35154-US-PRV	61/162991			Converted
35163	35163-US-CNT	14/059478	2014/0046622	9103848	Granted
35163	35163-US-PAT	12/955037	2012/0136618	8589089	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35165	35165-US-CNT	14/180421	2014/0162696	8989783	Granted
35165	35165-US-PAT	12/613723	2011/0111772	8682348	Granted
35173	35173-US-PAT	12/421274	2010/0262661		Abandoned
35176	35176-US-PAT	12/609502	2011/0102205	8319671	Granted
35177	35177-US-CNT	13/528160	2012/0255847	8383966	Granted
35177	35177-US-PAT	12/567926	2011/0073454	8232485	Granted
35178	35178-US-PAT	12/543878	2011/0042970	8556303	Granted
35183	35183-US-PAT	12/512316	2011/0030067	8875219	Granted
35185	35185-US-CNT	13/484071	2012/0236833	9112687	Granted
35185	35185-US-PAT	12/729534	2010/0238910	8670433	Granted
35185	35185-US-PRV	61/162550			Converted
35185-1	35185-1-US-CNT	13/244828	2012-0014359	8218494	Granted
35185-1	35185-1-US-PAT	12/729505	2010/0238891	8483153	Granted
35185-1	35185-1-US-PRV	61/162567			Converted
35187	35187-US-CIP	13/219087	2012/0046081	8792947	Granted
35187	35187-US-PAT	12/860609	2012/0046076	8660621	Granted
35188	35188-US-PAT	12/641532	2011/0151947	8483784	Abandoned
35190	35190-US-CNT	13/417946	2012/0170243	8861224	Granted
35190	35190-US-PAT	12/623003	2011/0122594	8159834	Granted
35191	35191-US-PAT	12/687947	2011/0177850	8843183	Abandoned
35194	35194-US-PAT	12/623131	2011/0122553	8467838	Abandoned
35195	35195-US-PAT	12/856273	2011/0038348	8442025	Granted
35195	35195-US-PRV	61/234074			Converted
35202	35202-US-PAT	12/610715	2011/0105090		Abandoned
35213	35213-US-CNT	13/492376	2012/0250911	9153919	Granted
35213	35213-US-PAT	12/573668	2011/0081022	8215989	Granted
35215	35215-US-PAT	12/621127	2011/0118860	8660677	Granted
35236	35236-US-PAT	12/613889	2011/0111726	8509731	Granted
35242	35242-US-PAT	12/715087	2011/0214066	9479603	Granted
35248	35248-US-PAT	13/047284	2012/0239949		Abandoned
35251	35251-US-CNT	14/254409	2014/0224890	9349088	Granted
35251	35251-US-PAT	12/420360	2010/0259549	8720780	Granted
35256	35256-US-CNT	13/862756	2013/0231071	8903345	Granted
35256	35256-US-PAT	12/614683	2011/0111718	8509721	Granted
35259	35259-US-PAT	12/790457	2011/0295960	8621014	Granted
35261	35261-US-PAT	12/771681	2010/0312832		Abandoned
35261	35261-US-PRV	61/175390			Converted
35261-1	35261-1-US-PAT	12/771810	2011/0040836		Abandoned
35261-1	35261-1-US-PRV	61/175394			Converted
35261-2	35261-2-US-CNT	14/704241	2015/0312295	10609099	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35261-2	35261-2-US-PAT	12/771867	2010/0312897		Abandoned
35261-2	35261-2-US-PRV	61/175403			Converted
35266	35266-US-CNT	13/617151	2013/0013309	8510104	Granted
35266	35266-US-PAT	12/615801	2011/0112838	8321209	Granted
35266-1	35266-1-US-PAT	12/615846	2011/0112830	8326625	Granted
35270	35270-US-PAT	12/696126	2011/0188644	8494126	Granted
35277	35277-US-CNT	13/864621	2013/0222260	8847742	Granted
35277	35277-US-PAT	12/840325	2012/0020045	8446264	Granted
35284	35284-US-PAT	12/487842	2010/0261502	8260351	Granted
35284	35284-US-PRV	61/168450			Converted
35285	35285-US-DIV	13/569541	2012/0300379	8780569	Granted
35285	35285-US-DIV[2]	14/294586	2014/0268558	9013870	Granted
35285	35285-US-PAT	12/609144	2011/0103028	8264848	Granted
35286	35286-US-PAT	12/782070	2011/0289486	8719797	Granted
35287	35287-US-CNT	14/447166	2014/0344705	10506077	Granted
35287	35287-US-PAT	12/713983	2011/0202847	8826141	Granted
35287	35287-US-PRV	61/303957			Converted
35298	35298-US-CNT	14/978032	2016/0116986		Abandoned
35298	35298-US-PAT	12/608031	2011/0105186		Abandoned
35303	35303-US-PAT	11/711865	2008/0044026	9692737	Granted
35303	35303-US-PRV	60/777262			Converted
35303-1	35303-1-US-CNT	12/767957	2010/0205433	8423765	Granted
35303-1	35303-1-US-CNT[2]	13/861540	2013/0238899	8972721	Granted
35303-1	35303-1-US-PAT	11/450418	2007/0021843	7734915	Granted
35303-1	35303-1-US-PRV	60/690155			Converted
35304	35304-US-CNT	13/426004	2012/0237021	8750500	Granted
35304	35304-US-PAT	12/145758	2009/0003590	8958551	Granted
35304	35304-US-PRV	60/946634			Converted
35306	35306-US-PAT	12/171398	2009/0022309	8964971	Granted
35306	35306-US-PRV	60/950213			Converted
35307	35307-US-CNT	13/283463	2012/0039466	8548165	Granted
35307	35307-US-PAT	12/169795	2009/0022311	8073139	Granted
35307	35307-US-PRV	60/950235			Converted
35308	35308-US-CNT	13/887120	2013/0318342	9071445	Granted
35308	35308-US-PAT	12/170658	2009/0046852	8457307	Granted
35308	35308-US-PRV	60/950262			Converted
35309	35309-US-PAT	12/230799	2009/0100267	9455832	Granted
35309	35309-US-PRV	60/935855			Converted
35310	35310-US-PAT	12/259433	2009/0113252	8442216	Granted
35310	35310-US-PRV	60/983872			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35311	35311-US-PAT	12/260865	2009/0268900	8781112	Granted
35311	35311-US-PRV	60/984851			Converted
35312	35312-US-CNT	13/615311	2013/0003970	10003580	Granted
35312	35312-US-DIV	15/987978	2018/0278587	10419407	Granted
35312	35312-US-PAT	12/314610	2009/0292926	9485223	Granted
35312	35312-US-PRV	60/996976			Converted
35314	35314-US-PAT	12/609891	2010/0111296	8891756	Granted
35314	35314-US-PRV	61/109540			Converted
35315	35315-US-PAT	12/609772	2010/0146028	8862651	Granted
35315	35315-US-PRV	61/109558			Converted
35316	35316-US-CNT	13/106688	2011/0210770	8228099	Granted
35316	35316-US-CNT[2]	13/533661	2012/0268174	8319533	Granted
35316	35316-US-PAT	12/610082	2010/0109721	7965113	Granted
35316	35316-US-PRV	61/193155			Converted
35318	35318-US-PAT	12/639710	2010/0153728	8639931	Granted
35318	35318-US-PRV	61/122936			Converted
35320	35320-US-PAT	12/707913	2010/0223478	8577028	Granted
35320	35320-US-PRV	61/156251			Converted
35321	35321-US-CNT	09/283658		6563928	Expired
35321	35321-US-PAT	08/649308		5933504	Expired
35326	35326-US-CNT	11/641943	2007/0245139	8266425	Granted
35326	35326-US-CNT[2]	13/564472	2013/0031361	8832431	Expired
35326	35326-US-CNT[3]	14/458971	2014/0351580	9813249	Expired
35326	35326-US-PAT	09/978200	2003/0074555		Abandoned
35330	35330-US-CNT	09/365025			Abandoned
35330	35330-US-CNT[2]	12/892719	2011/0016324	8307211	Expired
35330	35330-US-CNT[3]	13/609153	2013/0067233	8966271	Expired
35330	35330-US-CNT[4]	14/629395	2015/0228144	9990796	Expired
35330	35330-US-DIV	09/716223			Abandoned
35330	35330-US-DIV[2]	10/185042	2002/0174339	7472276	Expired
35330	35330-US-DIV[3]	12/324232	2009/0164792	7822987	Expired
35330	35330-US-PAT	09/016926		6178507	Expired
35334	35334-US-CNT	12/821882	2010/0260335	8396212	Granted
35334	35334-US-PAT	10/348756	2003/0174836	7769169	Granted
35334	35334-US-PRV	60/350017			Converted
35334	35334-US-PRV[2]	60/350380			Converted
35335	35335-US-CNT	09/840096	2001/0014153		Abandoned
35335	35335-US-CNT[2]	11/705020	2007/0147607	8116451	Expired
35335	35335-US-CNT[3]	13/244880	2012/0014523	8594324	Expired
35335	35335-US-CNT[4]	14/089358	2014/0344576		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35335	35335-US-PAT	08/949781			Abandoned
35335	35335-US-PCT	10/181356		7215773	Expired
35335-1	35335-1-US-CIP	10/185735	2003/0076954	7567669	Expired
35335-1	35335-1-US-CNT	12/458468	2010/0014663	8229113	Expired
35335-1	35335-1-US-CNT[2]	13/527891	2012/0257758	8953787	Expired
35335-1	35335-1-US-CNT[3]	13/620758	2013/0019099	8983064	Expired
35341	35341-US-CNT	12/390030	2009/0296939	8681993	Granted
35341	35341-US-CNT[2]	14/176803	2014/0173276	9356778	Granted
35341	35341-US-CNT[3]	15/152250	2016/0261574	9871776	Granted
35341	35341-US-PAT	10/383572	2003/0235309		Abandoned
35341	35341-US-PRV	60/362865			Converted
35341	35341-US-PRV[2]	60/363309			Converted
35350	35350-US-PCT	09/761700	2001/0033655	7020281	Expired
35352	35352-US-PCT	09/745488	2001/0021256	6850620	Expired
35354	35354-US-CNT	09/871672	2002/0018569	7123721	Expired
35354	35354-US-CNT[2]	11/521358	2007/0014410	7352866	Expired
35355	35355-US-CIP	09/900959	2002/0029346	7092523	Granted
35355	35355-US-CNT	11/483553	2007/0053509	8666070	Expired
35355	35355-US-CNT[2]	12/837268	2010/0278334	8666063	Expired
35355	35355-US-CNT[3]	13/621021	2013/0101112	8660264	Expired
35356	35356-US-CIP	09/931013	2002-0057796		Abandoned
35356	35356-US-CNT	09/885959	2002/0044649	7110538	Expired
35356	35356-US-CNT[2]	11/095542	2006/0029222	7995752	Expired
35357	35357-US-CIP	10/119803	2003/0194086	7599491	Granted
35357	35357-US-CNT	12/495429	2009/0262930	8280048	Expired
35357	35357-US-CNT[2]	13/619557	2013/0073867	8621239	Expired
35359	35359-US-CNT	09/933720	2002/0025038	7190789	Granted
35360	35360-US-CNT	09/948793	2002/0041682	7299253	Granted
35360	35360-US-CNT[2]	11/931236	2008/0177814	8145697	Granted
35360	35360-US-DIV	11/867594	2008/0077645	8086656	Granted
35363	35363-US-CNT	11/155899	2006/0123235	7272226	Expired
35363	35363-US-CNT[2]	11/855608	2008/0056499	7840004	Expired
35363	35363-US-CNT[3]	12/950626	2011/0064226	8170207	Expired
35363	35363-US-CNT[4]	13/451467	2012/0257745	8520847	Expired
35363	35363-US-PAT	09/619633		6934392	Granted
35364	35364-US-CNT	11/812811	2008/0141036	7877610	Expired
35364	35364-US-CNT[2]	12/977738	2011/0093718	8195948	Expired
35364	35364-US-CNT[3]	13/421589	2012/0233469	8793500	Expired
35364	35364-US-CNT[4]	14/307299	2014/0298033		Abandoned
35364	35364-US-PAT	09/390362		7249259	Expired

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35367	35367-US-CNT	11/012595	2005/0193219	7480795	Expired
35367	35367-US-CNT[2]	13/285749	2012/0102318	8522012	Expired
35367	35367-US-DIV	12/333135	2009/0086968	8069347	Expired
35367	35367-US-PAT	09/589891			Abandoned
35368	35368-US-CNT	10/196286	2003/0115456	7610484	Granted
35368	35368-US-CNT[2]	12/559091	2010/0228969	8214636	Expired
35368	35368-US-CNT[3]	13/539038	2012/0331288	8627085	Expired
35368	35368-US-PRV	60/260892			Converted
35368	35368-US-PRV[2]	60/261169			Converted
35369	35369-US-CNT	11/483176	2007/0150740		Abandoned
35369	35369-US-CNT[2]	12/848745	2011/0010540		Abandoned
35369	35369-US-CNT[3]	13/549176	2012/0284509	9003182	Expired
35369	35369-US-PAT	09/680501			Abandoned
35370	35370-US-CNT	11/154956			Abandoned
35370	35370-US-PAT	09/665763		6948061	Granted
35372	35372-US-CNT	10/634881	2005/0191990	7356329	Granted
35372	35372-US-CNT[2]	12/071576	2008/0307068	7787865	Granted
35372	35372-US-CNT[3]	12/852308	2010/0306546	8064879	Granted
35372	35372-US-CNT[4]	13/270080	2012/0030461	8320879	Granted
35372	35372-US-CNT[5]	13/620274	2013/0016840	8792860	Granted
35372	35372-US-PRV	60/266481			Converted
35376	35376-US-PAT	09/903612	2003/0014626	7243225	Granted
35377	35377-US-CNT	12/110661	2009/0077651	7734822	Expired
35377	35377-US-PAT	09/903991	2003/0014541	7366794	Granted
35379	35379-US-PAT	09/903989	2003/0014706	6728930	Granted
35381	35381-US-DIV	11/691638	2007/0214362	8099769	Granted
35381	35381-US-PAT	09/905113	2003/0014632	7216237	Granted
35382	35382-US-CNT	11/668617	2007/0160059	8837471	Granted
35382	35382-US-CNT[2]	14/470851	2014/0369200	9629024	Granted
35382	35382-US-PAT	09/918646	2003/0026255	7257116	Granted
35383	35383-US-CNT	11/687773	2007/0217601	7412062	Granted
35383	35383-US-PAT	10/058214	2003/0123655	7215780	Granted
35383	35383-US-PRV	60/343,225			Converted
35384	35384-US-CIP	10/092972	2003/0044019	7243232	Expired
35384	35384-US-CIP[2]	10/440486	2004/0081321	7334127	Expired
35384	35384-US-CNT	11/961779	2008/0162938	8209533	Expired
35384	35384-US-CNT[2]	13/364267	2012/0137133	8578165	Expired
35384	35384-US-CNT[3]	14/039186	2014/0032911	8892890	Expired
35384	35384-US-PAT	08/426090	2001/0042205	6487661	Expired

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35385	35385-US-CNT	11/519207	2007/0110234	7512233	Reissued (Inactive Parent)
35385	35385-US-CNT[2]	13/618305	2013/0016831	8693684	Granted
35385	35385-US-PAT	10/058213	2003/0123668	7127063	Granted
35385	35385-US-PRV	60/343224			Converted
35385	35385-US-REI	13/075988		RE43792	Granted
35386	35386-US-CNT	12/101590	2009/0077144	8666062	Granted
35386	35386-US-PAT	10/058212	2003/0123654	7372960	Granted
35386	35386-US-PRV	60/343226			Converted
35386	35386-US-PRV[2]	60/343223			Converted
35386	35386-US-PRV[3]	60/343227			Converted
35386	35386-US-PRV[4]	60/343220			Converted
35388	35388-US-PAT	10/653206	2004/0114760	7257709	Granted
35388	35388-US-PRV	60/407301			Converted
35389	35389-US-CNT	14/470364	2016/0366103	10063524	Granted
35389	35389-US-CNT[2]	16/113518	2018/0367512	10673829	Granted
35389	35389-US-CNT[3]	16/872119	2020/0274857		Publication of Application
35389	35389-US-DIV	12/549075	2009/0316902	8855308	Granted
35389	35389-US-PAT	10/726493	2004/0136527	7600038	Granted
35389	35389-US-PRV	60/431078			Converted
35389	35389-US-PRV[2]	60/431645			Converted
35390	35390-US-PAT	10/734231	2005/0031122	7249254	Granted
35390	35390-US-PRV	60/433015			Converted
35390	35390-US-PRV[2]	60/459268			Converted
35391	35391-US-PAT	10/863162	2005/0063548	7177423	Granted
35391	35391-US-PRV	60/476915			Converted
35394	35394-US-CNT	13/618060	2013/0013916	8713321	Granted
35394	35394-US-CNT[2]	14/203079	2014/0325227	9160530	Granted
35394	35394-US-CNT[3]	14/992397	2016/0248735	9967239	Granted
35394	35394-US-PAT	10/974802	2005/0135606	9240884	Granted
35394	35394-US-PRV	60/514687			Converted
35395	35395-US-CIP	08/442833		5761305	Expired
35395	35395-US-CIP[2]	08/734627		5889865	Expired
35395	35395-US-CIP[3]	09/066609		5896455	Expired
35395	35395-US-CNT	08/966766		6122736	Expired
35395	35395-US-CNT[2]	10/899303	2005/0182936		Abandoned
35395	35395-US-CNT[3]	11/870901	2008/0162940	7779259	Expired
35395	35395-US-CNT[4]	12/837104	2010/0281259	8090947	Expired
35395	35395-US-CNT[5]	13/310227	2012/0079274		Abandoned
35395	35395-US-DIV	09/558256		6785813	Expired

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35395	35395-US-PAT	08/426712			Abandoned
35397	35397-US-CNT	11/542106	2007/0124590	8095792	Granted
35397	35397-US-CNT[2]	13/315509	2012/0089844	8359469	Granted
35397	35397-US-CNT[3]	13/618358	2013/0073857	8938617	Granted
35397	35397-US-PRV	60/543914			Converted
35398	35398-US-CNT	13/618451	2013/0246805	8634562	Granted
35398	35398-US-PAT	11/272151	2007/0076866	8335317	Granted
35398	35398-US-PRV	60/626921			Converted
35399	35399-US-CNT	12/945234	2011/0060909	8213605	Granted
35399	35399-US-CNT[2]	13/495307	2012/0314855	8782400	Granted
35399	35399-US-PAT	11/272152	2006/0140400	7844051	Granted
35399	35399-US-PRV	60/626884			Converted
35400	35400-US-PAT	11/272150	2007/0071237	8588409	Granted
35400	35400-US-PRV	60/626883			Converted
35401	35401-US-CNT	12/859032	2010/0312791	9121119	Granted
35401	35401-US-PAT	11/304825	2006/0161571	7801869	Granted
35401	35401-US-PRV	60/637756			Converted
35402	35402-US-CIP	13/041759	2011/0194694	8467535	Granted
35402	35402-US-CNT	13/478288	2012/0230494	8806197	Granted
35402	35402-US-CNT[2]	13/620206	2013/0064367	8788827	Granted
35402	35402-US-CNT[3]	14/318313	2014/0344579	10284370	Granted
35402	35402-US-PAT	11/333296	2007/0064932	8204232	Granted
35402	35402-US-PRV	60/644034			Converted
35403	35403-US-PAT	11/334465	2007/0053510	8582760	Granted
35404	35404-US-CNT	13/770533	2013/0170642	8948388	Granted
35404	35404-US-CNT[2]	14/575844	2015/0156019	10243734	Granted
35404	35404-US-CNT[3]	16/277017	2019/0190711	10756893	Granted
35404	35404-US-CNT[4]	16/938180	2020/0366477		Publication of Application
35404	35404-US-PAT	11/336814	2007/0189527	8396213	Granted
35404	35404-US-PRV	60/644982			Converted
35405	35405-US-PAT	11/418462	2007/0156638	8566791	Granted
35405	35405-US-PRV	60/677816			Converted
35406	35406-US-CNT	14/319545	2015/0002260	9734322	Granted
35406	35406-US-PAT	12/771335	2010/0308978	8766778	Granted
35406	35406-US-PRV	61/174064			Converted
35407	35407-US-PAT	11/452393	2007/0033405	9054861	Granted
35407	35407-US-PRV	60/690156			Converted
35408	35408-US-CNT	12/776803	2010/0250945	8880888	Granted
35408	35408-US-DIV	12/752831	2010/0189253		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35408	35408-US-PAT	11/436986	2007/0122004	7720221	Granted
35408	35408-US-PRV	60/682862			Converted
35409	35409-US-CNT	13/856915	2013/0227277	9154494	Granted
35409	35409-US-PAT	12/774568	2011/0087883	8447971	Granted
35409	35409-US-PRV	61/213082			Converted
35410	35410-US-CNT	13/177286	2011/0261956	8284930	Granted
35410	35410-US-CNT[2]	13/614927	2013/0003964	8548163	Granted
35410	35410-US-PAT	11/556531	2007/0098154	8045705	Granted
35410	35410-US-PRV	60/732715			Converted
35412	35412-US-DIV	13/357411	2012/0131322	8510570	Granted
35412	35412-US-PAT	11/779651	2008/0028235	8166308	Granted
35412	35412-US-PRV	60/831472			Converted
35412	35412-US-PRV[2]	60/885073			Converted
35413	35413-US-CNT[3]	13/461586	2012/0213366	8634559	Granted
35413	35413-US-PAT	11/852709	2008/0150702	8938615	Granted
35413	35413-US-PAT[2]	11/898181	2008/0164976	9013266	Granted
35413	35413-US-PAT[3]	11/852819	2008/0069347	8185744	Granted
35413	35413-US-PRV	60/824921			Converted
35413	35413-US-PRV[2]	60/865566			Converted
35413	35413-US-PRV[3]	60/929816			Converted
35414	35414-US-PAT	11/939022	2010/0023775	8631240	Granted
35414	35414-US-PRV	60/865544			Converted
35415	35415-US-CNT	13/284770	2012/0047363	8380984	Granted
35415	35415-US-PAT	11/940659	2010/0023771	8069346	Granted
35415	35415-US-PRV	60/866013			Converted
35416	35416-US-PAT	11/947290	2008/0144817	9002003	Granted
35416	35416-US-PRV	60/867752			Converted
35422	35422-US-PAT	12/894413	2011/0081887	8774817	Granted
35422	35422-US-PRV	61/248366			Converted
35439	35439-US-CNT	14/981406			Abandoned
35439	35439-US-PAT	12/884630	2012/0068970	9223431	Granted
35443	35443-US-PAT	12/623730	2011/0123843	9240610	Granted
35449	35449-US-PAT	12/549846	2011/0051660	9204373	Granted
35449-1	35449-1-US-PAT	12/549890	2011/0053586	8457624	Granted
35449-2	35449-2-US-PAT	12/549870	2011/0053595	8688118	Granted
35451	35451-US-PAT	12/789849	2011/0289713		Abandoned
35453	35453-US-PAT	12/579981	2011/0018695	8378798	Granted
35453	35453-US-PRV	61/228430			Converted
35458	35458-US-PAT	12/764653	2011/0103306	8644294	Abandoned
35458	35458-US-PRV	61/171335			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35459	35459-US-CNT	13/869241	2013/0243048	8665991	Granted
35459	35459-US-PAT	12/760701	2011/0255575	8451941	Granted
35460	35460-US-PAT	12/571616	2011/0080347	8629843	Granted
35462	35462-US-CNT	13/603537	2012/0329435	8666050	Granted
35462	35462-US-PAT	12/702501	2011/0194683	8284917	Granted
35464	35464-US-PAT	12/855228	2012/0040654	9014680	Granted
35479	35479-US-CIP	12/760892	2010/0290395		Abandoned
35479	35479-US-PRV	61/169596			Converted
35479-1	35479-1-US-CIP	12/846441	2010/0310011	8693597	Granted
35479-1	35479-1-US-PRV	61/230309			Converted
35481	35481-US-CNT	13/244734	2012/0017267	8935754	Granted
35481	35481-US-CNT[2]	14/594880	2015/0128232	9572030	Granted
35481	35481-US-CNT[3]	15/431501	2017/0156063	9820149	Granted
35481	35481-US-CNT[4]	15/811442	2018/0070236	10136319	Granted
35481	35481-US-PAT	12/504500	2010/0275249	8943552	Granted
35481	35481-US-PRV	61/172597			Converted
35494	35494-US-PAT	12/697038	2011/0191424	8230030	Granted
35509	35509-US-PAT	12/688061	2011/0176747		Abandoned
35511	35511-US-PAT	12/765416	2011/0265005		Abandoned
35520	35520-US-PAT	12/814127	2011/0304558	8451240	Granted
35523	35523-US-PAT	12/612542	2011/0105120	8792890	Granted
35525	35525-US-PAT	12/884936	2012/0068971	9513737	Granted
35526	35526-US-PAT	12/707729	2011/0200101	8675726	Granted
35530	35530-US-CNT	15/418960	2017/0195924	10506473	Granted
35530	35530-US-DIV	14/488791	2015/0057003	9560553	Granted
35530	35530-US-PAT	12/435357	2010/0278142	8842633	Granted
35530-1	35530-1-US-PAT	12/435358	2010/0279677	8254981	Granted
35530-2	35530-2-US-PAT	12/435362	2010/0279691	8559387	Granted
35530-3	35530-3-US-PAT	12/773080	2010/0304749	8526949	Granted
35530-3	35530-3-US-PRV	61/175427			Converted
35531	35531-US-CNT	13/775143	2014/0254194	9086513	Granted
35531	35531-US-PAT	12/713424	2011/0210921	8403539	Granted
35538	35538-US-PAT	12/884942	2012/0071206		Abandoned
35540	35540-US-CNT	13/558531	2012/0289204	8548437	Granted
35540	35540-US-CNT[2]	13/975733	2013/0344848	8761733	Granted
35540	35540-US-PAT	12/573264	2011/0081891	8244219	Granted
35542	35542-US-PAT	12/773586	2010/0279693	8483688	Abandoned
35542	35542-US-PRV	61/175346			Converted
35543	35543-US-PAT	12/770585	2010/0279679	8818356	Granted
35543	35543-US-PRV	61/174920			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35547	35547-US-PAT	12/684219	2011/0170595	8315310	Granted
35547-1	35547-1-US-PAT	12/684298	2011/0170596	8340188	Granted
35547-3	35547-3-US-PAT	12/684374	2011/0170597	8358698	Granted
35547-4	35547-4-US-PAT	12/684461	2011/0170598	8559519	Granted
35548	35548-US-PCT	13/389238	2012/0202482	9014688	Granted
35548	35548-US-PRV	61/232681			Converted
35552	35552-US-PAT	12/789890	2011/0290841	8651352	Granted
35569	35569-US-PAT	12/773574	2010/0278066		Abandoned
35569	35569-US-PRV	61/175352			Converted
35573	35573-US-PAT	12/634007	2011/0136551		Abandoned
35576	35576-US-CNT	13/548474	2012/0282880	8538403	Granted
35576	35576-US-PAT	12/570844	2011/0076981	8244231	Granted
35577	35577-US-CNT	13/751261	2013/0138951	8781128	Granted
35577	35577-US-PAT	12/854928	2012/0042166	8379862	Granted
35581	35581-US-PAT	12/906535	20110273823	8373985	Granted
35581	35581-US-PRV	61/332099			Converted
35582	35582-US-PAT	12/965300	20120146875	8593367	Granted
35589	35589-US-CNT	15/148555	2016/0253528	10169620	Granted
35589	35589-US-CNT[2]	16/231703	2019/0213360	11113426	Granted
35589	35589-US-PAT	12/572632	2011/0081889	9338274	Granted
35591	35591-US-PAT	12/950905	2012/0127075		Abandoned
35594	35594-US-PAT	12/691953	2011/0183715	8620381	Granted
35595	35595-US-PAT	12/710935	2011/0207489	8423066	Granted
35596	35596-US-PAT	12/817142	2010/0317347	8306537	Granted
35596	35596-US-PRV	61/187629			Converted
35596-4	35596-4-US-CNT	13/244760	2012/0015646		Abandoned
35596-4	35596-4-US-CNT[2]	14/882290	2016/0037418	9554315	Granted
35596-4	35596-4-US-CNT[3]	15/285358	2017/0026877	10028178	Granted
35596-4	35596-4-US-CNT[4]	16/035934	2018/0324650	11039344	Granted
35596-4	35596-4-US-CNT[5]	17/080456	2021/0045019		Publication of Application
35596-4	35596-4-US-PAT	12/817157	2010/0316034	8873407	Granted
35596-4	35596-4-US-PRV	61/187640			Converted
35596-5	35596-5-US-CNT	15/995473	2018/0279184	11096095	Granted
35596-5	35596-5-US-CNT[2]	17/383232	2021/0352540		Publication of Application
35596-5	35596-5-US-PAT	12/817159	2010/0317348	10341910	Granted
35596-5	35596-5-US-PRV	61/187643			Converted
35599	35599-US-PAT	12/854639	2012/0040722	8229511	Granted
35601	35601-US-PAT	12/771364	2010/0281487	9201669	Granted
35601	35601-US-PRV	61/175024			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35605	35605-US-PAT	12/870053	2011/0211690	8792636	Granted
35605	35605-US-PRV	61/237990			Converted
35606	35606-US-PAT	12/854497	2012/0038469		Abandoned
35608	35608-US-PAT	12/778661	2011/0280403	8515077	Granted
35609	35609-US-PAT	12/713451	2011/0210983	8502836	Granted
35616	35616-US-PAT	12/750770	2011/0242059	8749531	Granted
35618	35618-US-PAT	12/906601	2012/0095721	8627721	Granted
35626-1	35626-1-US-CNT	16/678987	2020/0146086	11129223	Granted
35626-1	35626-1-US-CNT[2]	17/409394	2021/0385895		Publication of Application
35626-1	35626-1-US-PAT	12/826631	2010/0329244	10477607	Granted
35626-1	35626-1-US-PRV	61/221509			Converted
35630	35630-US-PCT	13/319907	2012/0117230	9444900	Granted
35630	35630-US-PRV	61/177954			Converted
35641	35641-US-PAT	12/713651	2010/0325167		Abandoned
35641	35641-US-PRV	61/218212			Converted
35643	35643-US-CNT	13/472673	2012/0223861	8482461	Granted
35643	35643-US-PAT	12/699324	2010/0328154	8193982	Granted
35643	35643-US-PRV	61/221348			Converted
35644	35644-US-PAT	12/713203	2011/0212687	8526880	Granted
35652	35652-US-PAT	12/570217	2011/0074702	8619044	Granted
35654	35654-US-PAT	12/779568	2011/0279084	8952659	Granted
35655	35655-US-CIP	12/714050	2010/0223522	8429475	Granted
35666	35666-US-PAT	12/612526	2011/0105158	8577371	Granted
35669	35669-US-PAT	12/626402	2011/0121584	8562030	Granted
35677	35677-US-DIV	13/948845	2014/0028511	9502770	Granted
35677	35677-US-PAT	12/615267	2011/0109515	8514132	Granted
35679	35679-US-CNT	13/611362	2013/0002286	9121895	Abandoned
35679	35679-US-PAT	12/689324	2011/0175621	8289042	Abandoned
35683	35683-US-CNT	13/617450	2013/0013724	8667094	Granted
35683	35683-US-PAT	12/704642	2011/0202632	8326947	Granted
35692	35692-US-CNT	13/693669	2013/0095781	9088883	Granted
35692	35692-US-PAT	12/688585	2011/0176481	8351896	Granted
35696	35696-US-PAT	12/820275	2010/0328242	8446076	Granted
35696	35696-US-PRV	61/219969			Converted
35705	35705-US-PAT	13/094149	2012/0274576	9360938	Granted
35706	35706-US-PAT	12/822380	2011/0317837	9246672	Granted
35708	35708-US-PAT	12/635989	2011/0140932	8598474	Granted
35710	35710-US-CNT	14/991664	2016/0252353		Abandoned
35710	35710-US-PAT	12/696768	2011/0191024	9234760	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35711	35711-US-PAT	12/837662	2012/0014252	8477618	Granted
35714	35714-US-PAT	12/687956	2011/0179018	8533186	Granted
35716	35716-US-CNT	13/553122	2012/0282981	8483778	Granted
35716	35716-US-PAT	12/706490	2011/0201391	8244310	Granted
35717	35717-US-PAT	12/706528	2011/0198929	8760125	Granted
35724	35724-US-PAT	13/020850	2012/0203560	9032131	Granted
35728	35728-US-PAT	12/641508	2011/0151855	9503991	Granted
35733	35733-US-PAT	12/787864	2011/0295958		Abandoned
35734	35734-US-PAT	12/787838	2011/0295889	8407181	Granted
35749	35749-US-PAT	12/562434	2011/0072020	8660793	Granted
35750	35750-US-PAT	12/817076	2010/0323684	8817686	Granted
35750	35750-US-PRV	61/218903			Converted
35757	35757-US-PAT	12/819922	2010/0323612	8600441	Granted
35757	35757-US-PRV	61/218600			Converted
35758	35758-US-CNT	13/858462	2013/0230042		Abandoned
35758	35758-US-PAT	12/611750	2011/0103372	8416780	Granted
35758-1	35758-1-US-PAT	12/611769	2011/0103373	8416781	Granted
35759	35759-US-PAT	12/631031	2011/0136552	8260381	Granted
35760-1	35760-1-US-PAT	12/686245	2011/0171925	9554317	Granted
35760-2	35760-2-US-PAT	12/686249	2011/0171926	8811935	Granted
35761-1	35761-1-US-CNT	13/668475	2013/0057731	8704917	Granted
35761-1	35761-1-US-PAT	12/819611	2010/0321535	8330832	Granted
35761-1	35761-1-US-PRV	61/219651			Converted
35762	35762-US-PAT	12/819924	2010/0322179	8705463	Granted
35762	35762-US-PRV	61/218797			Converted
35763	35763-US-PAT	12/637010	2011/0143823	8326381	Granted
35765	35765-US-PAT	12/626308	2011/0122061	8390569	Granted
35772	35772-US-CNT	13/244730	2012/0017004	8244901	Granted
35772	35772-US-PAT	12/814566	2010/0318600	8392598	Granted
35772	35772-US-PRV	61/187090			Converted
35774	35774-US-CNT	13/456934	2012/0214348	8550857	Granted
35774	35774-US-PAT	12/639063	2011/0009003	8272899	Granted
35774	35774-US-PRV	61/224665			Converted
35774-1	35774-1-US-CNT	13/246256	2012/0083166	8308496	Granted
35774-1	35774-1-US-CNT[2]	13/661132	2013/0115793	8657613	Granted
35774-1	35774-1-US-PAT	12/639074	2011/0009004	8057265	Granted
35774-2	35774-2-US-CNT	13/236714	2012/0077361	8475187	Granted
35774-2	35774-2-US-CNT[2]	13/609922	2013/0005189	8480418	Granted
35774-2	35774-2-US-PAT	12/639087	2011/0009005	8033846	Granted
35776	35776-US-PAT	12/713325	2011/0210907	8970500	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35783	35783-US-PAT	12/817077	2010/0325506	8468412	Granted
35783	35783-US-PRV	61/218907			Converted
35783-1	35783-1-US-CNT	14/931522	2016/0081004	10129812	Granted
35783-1	35783-1-US-PAT	12/817080	2010/0322143	9185744	Granted
35783-1	35783-1-US-PRV	61/218911			Converted
35787	35787-US-PAT	12/818756	2010/0325531	9043694	Granted
35787	35787-US-PRV	61/218793			Converted
35791	35791-US-PAT	12/908584	2012/0101818	8600400	Abandoned
35795	35795-US-PAT	12/833160	2012/0009888	8761689	Granted
35799	35799-US-PAT	12/720040	2011/0225298	8578027	Granted
35806	35806-US-CNT	13/961378	2013/0318474		Abandoned
35806	35806-US-PAT	12/874714	2012/0056817	8531417	Granted
35812	35812-US-CNT	14/048912	2014/0037997	9224990	Granted
35812	35812-US-PAT	12/752705	2011/0014515	8580413	Granted
35812	35812-US-PRV	61/225364			Converted
35816	35816-US-CNT	13/776514	2013/0163196	8804328	Granted
35816	35816-US-PAT	12/907877	2012/0092819	8427825	Granted
35820	35820-US-PAT	12/572906	2011/0081790	8029300	Granted
35822	35822-US-PAT	13/035731	2012/0218314	9275571	Granted
35825	35825-US-PAT	12/797599	20110298669	8350764	Granted
35827	35827-US-CNT	14/144266	2014/0192794	9113447	Granted
35827	35827-US-PAT	12/836270	2011/0164596	8619735	Granted
35827	35827-US-PRV	61/226208			Converted
35829	35829-US-CNT	15/953811	2018/0235021	10681757	Granted
35829	35829-US-PAT	12/868550	2011/0082940	9949305	Granted
35829	35829-US-PRV	61/248328			Converted
35835	35835-US-PAT	12/817903	2010/0325225	8639763	Granted
35835	35835-US-PRV	61/218768			Converted
35845	35845-US-PAT	12/756722	2011/0251899	10178213	Granted
35848	35848-US-PAT	12/770220	2011/0270679		Abandoned
35855	35855-US-PAT	12/623343	2011/0124283	8744338	Granted
35864	35864-US-PAT	12/713404	2011/0212704		Abandoned
35870	35870-US-CNT	14/223491	2014/0204044	9075475	Granted
35870	35870-US-PAT	12/817984	2010/0321321	8717311	Granted
35870	35870-US-PRV	61/218715			Converted
35875	35875-US-PAT	12/836370	2012/0013541		Abandoned
35877	35877-US-PAT	12/616182	2010/0321302		Abandoned
35877	35877-US-PRV	61/218503			Converted
35878	35878-US-PAT	12/713510	2011/0211297	8284544	Abandoned
35884	35884-US-CNT	14/184899	2014/0171082	9226201	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
35884	35884-US-PAT	12/912538	2012/0099562	8699456	Granted
35888	35888-US-PAT	12/651751	2011/0163991		Abandoned
35891	35891-US-PAT	12/631390	2011/0134908	8634408	Granted
35896	35896-US-PAT	12/537867	2011/0034175	9014138	Granted
35897	35897-US-PAT	12/612567	2011/0020673	8927146	Granted
35897	35897-US-PRV	61/228323			Converted
35899	35899-US-PAT	12/897448	2012/0084157	9836768	Granted
35901	35901-US-PAT	12/756730	2011/0248839		Abandoned
35904	35904-US-PAT	12/854400	2012/0037794	8704151	Granted
35915	35915-US-PAT	12/900061	2012/0087515	8976981	Granted
35918	35918-US-PAT	12/897822	2012/0084344	8848625	Granted
35924	35924-US-PAT	12/769160	2011/0270685		Abandoned
35927	35927-US-PAT	12/712859	2011/0209143	8881128	Granted
35933	35933-US-PAT	12/713951	2011/0211813	8798445	Granted
35936	35936-US-CNT	14/050943	2014/0049665	9013600	Granted
35936	35936-US-PAT	12/649395	2011/0157420	8558919	Granted
35940	35940-US-PAT	12/841850	2012/0021752	8837388	Granted
35940-3	35940-3-US-PAT	12/841868	2012/0020305	9001649	Granted
35940-4	35940-4-US-PAT	12/841873	2012/0023235	8745231	Granted
35940-5	35940-5-US-PAT	12/841875	2012/0020306	8830981	Granted
35943	35943-US-CNT	14/486733	2015/0011231	9307540	Granted
35943	35943-US-CNT[2]	15/090356	2016/0219576	9560657	Granted
35943	35943-US-PAT	12/829472	2012/0002614	8837386	Granted
35960	35960-US-CNT	13/741620	2013/0124663	9213963	Granted
35960	35960-US-PAT	12/692254	2011/0185029	8380804	Granted
35971	35971-US-PCT	13/639418	2013/0028128	8929196	Granted
35972	35972-US-CNT	14/298270	2014/0286198	9107061	Granted
35972	35972-US-PAT	12/898844	2011/0134897	8750268	Granted
35972	35972-US-PRV	61/266874			Converted
35976	35976-US-PAT	12/625766	2011/0122554	9042085	Granted
35978	35978-US-CNT	13/710905	2013/0103957	8751839	Granted
35978	35978-US-PAT	12/814123	2011/0307891	8335938	Granted
35998	35998-US-PAT	12/638291	2011/0141028	8643604	Granted
36005	36005-US-PAT	13/300843	2013/0132010	9746527	Granted
36013	36013-US-PAT	12/704701	2011/0199350	8730218	Granted
36014	36014-US-PRV	61/234253			Converted
36015	36015-US-PAT	12/718862	2011/0215971	8730110	Granted
36018	36018-US-CNT	13/775346	2013/0169686	9076253	Granted
36018	36018-US-PAT	12/560506	2011/0063325	8416262	Granted
36022	36022-US-CNT	13/781450	2013/0169229	8624551	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36022	36022-US-PAT	12/912591	2012/0098491	8410752	Granted
36029	36029-US-CIP	12/776678	2010/0238079	8552913	Abandoned
36030	36030-US-CNT	14/080356	2014/0142852	9518835	Granted
36030	36030-US-CNT[2]	15/365552	2017/0146357	11047701	Granted
36030	36030-US-PAT	11/290869	2006/0229802	8606516	Granted
36030	36030-US-PRV	60/631642			Converted
36031	36031-US-DIV	13/220237	2011/0310733	8908516	Granted
36031	36031-US-PAT	10/272039	2004/0073361		Abandoned
36033	36033-US-PAT	10/436926	2004/0230345	6862500	Granted
36034	36034-US-PAT	10/437205	2004/0230370	6925378	Granted
36035	36035-US-PAT	10/436691	2004/0230374	7076365	Granted
36036	36036-US-CNT	13/094407	2011/0264708	8271190	Granted
36036	36036-US-CNT[2]	13/601502	2013/0060465	8566021	Granted
36036	36036-US-PAT	11/292392	2006/0155464	7957893	Granted
36036	36036-US-PRV	60/632276			Converted
36037	36037-US-CNT	12/384657	2009/0228212	7949491	Granted
36037	36037-US-CNT[2]	13/089201	2011/0196611	8306777	Granted
36037	36037-US-PAT	11/581808	2007/0129892	7516041	Granted
36037	36037-US-PRV	60/726894			Converted
36039	36039-US-PAT	11/511752	2008/0051048	8280395	Granted
36041	36041-US-PAT	11/511688	2008/0052276	8612437	Granted
36042	36042-US-CNT	13/182860	2011/0270982	8112522	Granted
36042	36042-US-CNT[2]	13/361035	2012/0131200	8307090	Granted
36042	36042-US-PAT	11/511765	2008/0052391	7987260	Granted
36043	36043-US-PAT	11/525725	2008/0077559	9245040	Granted
36047	36047-US-PAT	12/011283		9310214	Granted
36048	36048-US-PAT	11/827826	2009/0157292	8660794	Granted
36049	36049-US-CNT	12/887452	2011/0010091	8340898	Granted
36049	36049-US-PAT	11/827747	2009/0088971	7801675	Granted
36050	36050-US-CNT	13/706889	2013/0095880	9185678	Granted
36050	36050-US-PAT	11/903442		8339990	Granted
36055	36055-US-PAT	12/684152	2011/0170728	8295527	Granted
36061	36061-US-CNT	16/685472	2020/0151770		Allowed (Notice of Allowance)
36061	36061-US-CNT[2]	17575955			Filing
36061	36061-US-PAT	12/776733	2011/0276401		Abandoned
36071	36071-US-PAT	12/768180	2011/0264523		Abandoned
36075	36075-US-PAT	12/793960	2011/0300830	8792683	Granted
36076	36076-US-CNT	14/109793	2014/0170873	9257775	Granted
36076	36076-US-PAT	12/912598	2012/0098492	8638064	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36079	36079-US-PAT	12/545684	2011/0044261	8848623	Granted
36079-1	36079-1-US-PAT	12/545698	2011/0044239	8848601	Granted
36082	36082-US-PAT	12/831531	2011/0005798	8600043	Granted
36082	36082-US-PRV	61/223593			Converted
36088	36088-US-PAT	12/818574	2011/0311084	8462968	Granted
36098	36098-US-CNT	14/018923	2014/0009354	8884825	Abandoned
36098	36098-US-PAT	12/835601	2011/0012790	8587491	Abandoned
36098	36098-US-PRV	61/226500			Converted
36099	36099-US-CNT	13/747146	2013/0128851	8578233	Reissued (Inactive Parent)
36099	36099-US-CNT[2]	15/967380		RE48441	Granted
36099	36099-US-PAT	12/538016	2011/0035639	8386875	Granted
36099	36099-US-REI	14/933789		RE46821	Granted
36100	36100-US-PAT	12/830364	2011/0177801		Abandoned
36100	36100-US-PRV	61/297005			Converted
36104	36104-US-PAT	12/706328	2011/0199092	8680869	Granted
36105	36105-US-DIV	13/909507	2013/0263642	8909498	Granted
36105	36105-US-PAT	12/843973	2011/0029275	8626471	Granted
36105	36105-US-PRV	61/229870			Converted
36123	36123-US-CNT	13/244819	2012/0016967		Abandoned
36123	36123-US-PAT	12/838289	2011/0016196		Abandoned
36123	36123-US-PRV	61/226188			Converted
36124	36124-US-CNT	13/621059			Abandoned
36124	36124-US-CNT[2]	14/141230	2014/0108825	9183158	Granted
36124	36124-US-CNT[3]	14/922962	2016/0048462	9678896	Granted
36124	36124-US-PAT	12/625287			Abandoned
36124	36124-US-PCT	13/131019	2012/0102334	8631247	Granted
36124	36124-US-PRV	61/224801			Converted
36126	36126-US-CNT	14/961599	2016/0162836	10102500	Granted
36126	36126-US-PAT	12/834680	2011/0063093	9208459	Granted
36126	36126-US-PRV	61/224770			Converted
36128	36128-US-CNT	14/734467	2015/0309921	10380007	Granted
36128	36128-US-CNT[2]	16/508073	2019/0370159	11119905	Granted
36128	36128-US-PAT	12/834804	2011/0010720	9111098	Granted
36128	36128-US-PRV	61/224823			Converted
36133	36133-US-CNT	14/184369	2014/0232722	9129347	Granted
36133	36133-US-CNT[2]	14/841087	2015/0371612	9646577	Granted
36133	36133-US-PAT	12/907829	2012/0092397	8698859	Granted
36137	36137-US-PAT	12/772715	2011/0269349	8454392	Granted
36138	36138-US-CNT	14/742214	2015/0319593	9854462	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36138	36138-US-PCT	13/643235	2013/0072183	9071987	Granted
36139	36139-US-CNT	13/682312	2013/0080262		Abandoned
36139	36139-US-PAT	12/713929	2011/0212711	8346229	Granted
36143	36143-US-PAT	12/951953	2011/0125711	10146802	Granted
36143	36143-US-PRV	61/263811			Converted
36148	36148-US-CNT	15/445497	2017/0177614	10628385	Granted
36148	36148-US-PAT	12/951821	2011/0125712	9606993	Granted
36148	36148-US-PRV	61/263789			Converted
36152	36152-US-CNT	12/860593	2011/0205947	8737324	Granted
36155	36155-US-PAT	12/854635	2012/0038558	8947372	Granted
36159	36159-US-PAT	12/759286	2011/0039529	8971191	Granted
36159	36159-US-PRV	61/233332			Converted
36160	36160-US-PAT	12/838999	2011/0013768	8532286	Granted
36160	36160-US-PRV	61/226427			Converted
36181	36181-US-PAT	12/895953	2011/0134059	8618720	Granted
36181	36181-US-PRV	61/247651			Converted
36182	36182-US-PCT	13/389788	2013/0121264	9288808	Granted
36182	36182-US-PRV	61/234023			Converted
36188	36188-US-PAT	12/893165	2012/0077478	8750923	Granted
36191	36191-US-PAT	12/778820	2011/0280151	8570899	Granted
36197	36197-US-PAT	13/832432		8811538	Granted
36198	36198-US-PAT	13/832253	2014/0273905	8942656	Granted
36212	36212-US-PAT	12/684175	2011/0169632	9273978	Granted
36215	36215-US-PAT	12/829687	2012/0005283	8463859	Granted
36224	36224-US-PAT	12/790582	2011/0167351	8732583	Granted
36224	36224-US-PRV	61/292337			Converted
36225	36225-US-PAT	12/790428	2011/0164043	8581931	Granted
36225	36225-US-PRV	61/292316			Converted
36237	36237-US-CNT	13/616729	2013/0040638	8532059	Granted
36237	36237-US-PAT	12/774791	2011/0182273	8315228	Granted
36237	36237-US-PRV	61/297995			Converted
36247	36247-US-DIV	13/682791	2013/0079043	8606256	Granted
36247	36247-US-PAT	12/693055	2011/0183649	8346235	Granted
36248	36248-US-CNT	13/455672	2012/0208513	8428647	Granted
36248	36248-US-PAT	12/693306	2011/0183657	8190201	Granted
36250	36250-US-CNT	14/243592	2014/0210686	9680217	Granted
36250	36250-US-PAT	12/579381	2011/0086598	8774743	Granted
36251	36251-US-PAT	12/579370	2011/0086601	8190109	Abandoned
36259	36259-US-PAT	12/827066	2012/0001553	8471500	Granted
36261	36261-US-CNT	14/474968	2014/0370853	9131379	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36261	36261-US-CNT[2]	14/846096	2016/0105440	9749330	Granted
36261	36261-US-PAT	12/829530	2012/0003958	8843112	Granted
36265	36265-US-PAT	12/816552	2011/0312392	8290549	Granted
36266	36266-US-PAT	13/041026	2012/0225622	10142448	Granted
36274	36274-US-CNT	13/893172	2013/0242037	9185343	Granted
36274	36274-US-PAT	12/636270	2011/0032324	8471888	Granted
36274	36274-US-PRV	61/232256			Converted
36276	36276-US-PAT	12/858937	2011/0201295	8626109	Granted
36276	36276-US-PRV	61/235512			Converted
36277	36277-US-PAT	13/080932	2012/0258726	8977285	Granted
36279	36279-US-CNT	14/171389	2014/0149739	9112703	Granted
36279	36279-US-PAT	12/723926	2011/0225427	8645699	Granted
36282	36282-US-PAT	12/636376	2011/0035447	8874647	Granted
36282	36282-US-PRV	61/232292			Converted
36284	36284-US-CNT	14/051519	2014/0038585	9077423	Granted
36284	36284-US-PAT	12/698855	2011/0189984	8583035	Granted
36287	36287-US-PAT	13/030429	2012/0216140	8707199	Granted
36288	36288-US-PAT	12/938687	2012/0105774	8537311	Granted
36289	36289-US-PAT	12/578025	2011/0084932		Abandoned
36290	36290-US-PAT	12/830973	2012/0009929	8423030	Granted
36291	36291-US-CNT	15/197608	2016/0313841	10114495	Granted
36291	36291-US-PAT	12/578036	2011/0084911	9383847	Granted
36292	36292-US-PAT	12/725539	2011/0231494	9094358	Granted
36294	36294-US-CNT	13/107165	2011/0225251	8307043	Granted
36294	36294-US-CNT[2]	13/613094	2013/0007165	8682992	Granted
36294	36294-US-PAT	12/684262	2011/0173269	7970847	Granted
36295	36295-US-CNT	13/725338	2013/0117559	8719577	Granted
36295	36295-US-PAT	12/776541	2011/0276803	8347080	Granted
36296	36296-US-CNT	14/206976	2014/0192842	9088345	Granted
36296	36296-US-CNT[2]	14/791705	2015/0312013	9660786	Granted
36296	36296-US-CNT[3]	15/458803	2017/0188348	10123310	Granted
36296	36296-US-CNT[4]	16/169398	2019/0059080	10645678	Granted
36296	36296-US-CNT[5]	16/866096	2020/0267714		Publication of Application
36296	36296-US-PAT	12/860624	2011/0064115	8699543	Granted
36296	36296-US-PRV	61/235997			Converted
36296-1	36296-1-US-PCT	13/508462	2013/0100833	9814003	Granted
36296-1	36296-1-US-PRV	61/258934			Converted
36303	36303-US-PAT	13/229895	2013/0065088		Abandoned
36305	36305-US-PAT	13/249802	2013/0082532		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36307	36307-US-CNT	13/667849	2013/0064384	9258635	Granted
36307	36307-US-PAT	12/825632	2011/0316611	8320579	Granted
36311	36311-US-PAT	13/832649	2014/0274098	8983486	Granted
36311	36311-US-PAT[2]	14/178772		8805396	Granted
36320	36320-US-PAT	13/103434	2012/0287053	8982062	Granted
36328	36328-US-PAT	12/572927	2011/0080864	8488514	Granted
36336	36336-US-CNT	13/864837	2013/0231165		Abandoned
36336	36336-US-PAT	12/701809	2011/0195759		Abandoned
36337	36337-US-CNT	13/912590	2013/0273966	9241052	Granted
36337	36337-US-PAT	12/717581	2011/0216093	8502837	Granted
36338	36338-US-CNT	13/889719	2013/0242960	9326284	Granted
36338	36338-US-CNT[2]	15/137535	2016/0254895	10027458	Granted
36338	36338-US-PAT	12/860040	2012/0044913	8457020	Granted
36340	36340-US-PAT	13/249926	2013/0084509	8986898	Granted
36348	36348-US-CNT	13/931944	2013/0301205		Abandoned
36348	36348-US-PAT	13/020955	2012/0200990	8503174	Granted
36352	36352-US-DIV	13/615058	2013/0005337	8712435	Granted
36352	36352-US-PAT	12/889073	2011/0130139	8290489	Granted
36352	36352-US-PRV	61/245661			Converted
36357	36357-US-PAT	13/046262	2012/0229960	8687361	Granted
36360	36360-US-PCD	14/462145	2015/0016390	9231855	Granted
36360	36360-US-PCT	13/395863	2012/0176887	8891378	Granted
36360	36360-US-PRV	61/243795			Converted
36371	36371-US-PAT	12/692245	2011/0184733	8280729	Granted
36372	36372-US-DIV	15/266694	2017/0006512	10757616	Granted
36372	36372-US-PAT	13/921081	2014/0370899	9451513	Granted
36384	36384-US-CNT	15/245377	2016/0364594	9977944	Granted
36384	36384-US-PAT	12/784618	2011/0286639	9471826	Granted
36387	36387-US-CNT	15/415008	2017/0134502	10742745	Granted
36387	36387-US-PAT	12/855972	2011/0040863	9571574	Granted
36387	36387-US-PRV	61/234220			Converted
36387-1	36387-1-US-PAT	12/856017	2011/0040895	9332070	Granted
36390	36390-US-CNT	14/458601	2014/0351691	9575944	Granted
36390	36390-US-PAT	12/615001	2011/0113364	8843849	Granted
36391	36391-US-CNT	14/473485	2014/0373155	9419997	Granted
36391	36391-US-PAT	12/806737	2011/0214184	8839421	Granted
36391	36391-US-PRV	61/238345			Converted
36392	36392-US-PAT	12/783687	2011/0288936		Abandoned
36395	36395-US-CNT	14/041509	2014/0215205	9154524	Granted
36395	36395-US-PAT	12/755157	2011/0246762	8560830	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36402	36402-US-PAT	13/285442	2013/0108034	9020119	Granted
36416	36416-US-PAT	13/102202	2012/0281823	8958535	Granted
36417	36417-US-PAT	13/228628	2013/0065568	9219822	Granted
36418	36418-US-CNT	14/049100	2014/0045465	10278030	Granted
36418	36418-US-PAT	13/069845	2012/0244836	8583097	Granted
36421	36421-US-PAT	12/818689	2011/0310580	8331098	Granted
36438	36438-US-PAT	12/944155	2011/0283347	8544076	Granted
36438	36438-US-PRV	61/260390			Converted
36438	36438-US-PRV[2]	61/260353			Converted
36443	36443-US-PAT	12/854218	2012/0040721	8483771	Granted
36444	36444-US-CIP	12/578141	2010/0156844	8427441	Granted
36448	36448-US-CIP	12/578246	2010/0156824	8384680	Granted
36449	36449-US-PAT	12/890022	2012/0075198	10429929	Granted
36460	36460-US-PAT	12/984226	2012/0171983	8594614	Granted
36462	36462-US-PAT	12/573010	2011/0080890	8406192	Abandoned
36462-1	36462-1-US-PAT	12/573015	2011/0080892	8804596	Granted
36462-2	36462-2-US-PAT	12/573014	2011/0080891	8687590	Granted
36463	36463-US-CNT	13/794565	2013/0187884	8830200	Granted
36463	36463-US-PAT	12/713345	2011/0210923	8456435	Granted
36465	36465-US-PAT	13/030584	2012/0212319	8912877	Granted
36475	36475-US-CNT	13/598205	2012/0321066	8548432	Granted
36475	36475-US-PAT	12/636990	2011/0143714	8301117	Granted
36483	36483-US-PCD	14/448742	2014/0341161		Abandoned
36483	36483-US-PCT	13/391365	2012/0149408	8818433	Granted
36483	36483-US-PRV	61/235916			Converted
36487	36487-US-PAT	12/713445	2011/0212714	9014679	Granted
36489	36489-US-CIP	12/575248	2010/0171713	9442648	Granted
36497	36497-US-PAT	12/609575	2011/0105096	8509755	Granted
36498	36498-US-PAT	12/976465	2012/0162939	8279623	Granted
36508	36508-US-CNT	14/842692	2015/0371574	9858840	Granted
36508	36508-US-PAT	13/272596	2013/0093796	9159299	Granted
36513	36513-US-PAT	12/572664	2011/0080350	8436806	Granted
36529	36529-US-PAT	12/940596	2012/0117556	9118505	Granted
36542	36542-US-PAT	12/876580	2012/0059787	8620850	Granted
36545	36545-US-PAT	12/793345	2011/0300809		Abandoned
36547	36547-US-PAT	12/915387	2012/0103776	8822851	Granted
36557	36557-US-CNT	13/494699	2012/0258698	8423102	Granted
36557	36557-US-CNT[2]	13/856122	2013/0217374	8615280	Granted
36557	36557-US-PAT	12/692951	2011/0183653	8233951	Granted
36558	36558-US-PAT	13/036961	2012/0220281	8606267	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36559	36559-US-CNT	13/554810	2012/0282923	8483676	Granted
36559	36559-US-PAT	12/693108	2011/0183665	8260280	Granted
36561	36561-US-PAT	12/693325	2011/0182416	8976950	Granted
36562	36562-US-PAT	12/693259	2011/0182281		Abandoned
36569	36569-US-PAT	13/285737	2013/0109365	8611877	Granted
36575	36575-US-PAT	12/843996	2012/0028670	8571601	Granted
36582	36582-US-CNT	14/144073	2014/0115474	9298353	Granted
36582	36582-US-PAT	12/871972	2012/0054614	8621351	Granted
36584	36584-US-PAT	13/009002	2012/0183056	8553769	Granted
36585	36585-US-CNT	13/926019	2013/0276550	9523616	Granted
36585	36585-US-PAT	13/025829	2012/0205165	9035871	Granted
36590	36590-US-PAT	12/828621	2011/0179468	8458809	Granted
36590	36590-US-PRV	61/296828			Converted
36592	36592-US-PAT	13/276169	2012/0276877	8918083	Granted
36592	36592-US-PRV	61/393977			Converted
36597	36597-US-PAT	12/878145	2011/0145585	9490979	Granted
36597	36597-US-PRV	61/240877			Converted
36600	36600-US-PAT	12/833259	2012/0008766		Abandoned
36608	36608-US-PAT	13/179137	2012/0011346	9361107	Granted
36608	36608-US-PRV	61/362822			Converted
36609	36609-US-PAT	13/178961	2012/0011345	9032186	Granted
36609	36609-US-PRV	61/362814			Converted
36613	36613-US-PAT	12/697517	2011/0117856	8442447	Granted
36613	36613-US-PRV	61/262678			Converted
36617	36617-US-PAT	12/814210	2011/0307698	8429408	Granted
36620	36620-US-PAT	13/036918	2012/0221858	8549299	Granted
36621	36621-US-PAT	12/770996	2011/0270906	8626811	Granted
36623	36623-US-PAT	12/712937	2011/0208970	8918648	Granted
36626	36626-US-PAT	12/714116	2011/0213982	8775813	Granted
36629	36629-US-PAT	13/311238	2013/0145160	8639928	Granted
36636	36636-US-PAT	12/898187	2011/0246777	8645695	Granted
36637	36637-US-PAT	12/691955	2011/0183716	9385771	Granted
36656	36656-US-DIV	14/048661	2014/0038676	8717185	Granted
36656	36656-US-PAT	12/842393	2012/0019390	8581735	Granted
36657	36657-US-CNT	13/751521	2013/0135153		Abandoned
36657	36657-US-PAT	12/683965	2011/0163922	8390519	Granted
36658	36658-US-PAT	12/713574	2011/0214158	8869263	Granted
36660	36660-US-PAT	12/901160	2011/0093495	8407259	Granted
36660	36660-US-PRV	61/252342			Converted
36672	36672-US-PAT	12/892161	2012/0075111	8493227	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36677	36677-US-PAT	12/837975	2012/0016941		Abandoned
36685	36685-US-PAT	12/856779	2012/0040608	8718546	Granted
36686	36686-US-CNT	14/151453	2014/0128033		Abandoned
36686	36686-US-PAT	12/938990	2012/0108166	8660531	Granted
36688	36688-US-PAT	12/713884	2011/0209975	8274005	Granted
36695	36695-US-PAT	12/784607	2011/0285554	8405528	Granted
36696	36696-US-PAT	12/956095	2011/0131297	9253272	Granted
36696	36696-US-PRV	61/265928			Converted
36698	36698-US-CNT	13/688383	2013/0085863	8798591	Granted
36698	36698-US-PAT	12/948084	2011/0130125	8364128	Granted
36698	36698-US-PRV	61/265924			Converted
36701	36701-US-PAT	12/565912	2011/0070829	9106275	Abandoned
36707	36707-US-PAT	12/578257	2010/0156245	8179027	Granted
36710	36710-US-PAT	12/977170	2012/0161519		Abandoned
36712	36712-US-CNT[2]	14/221867	2014/0206365	9124704	Granted
36712	36712-US-CNT[3]	14/246870	2014/0220899	9055153	Granted
36712	36712-US-CNT[4]	14/453075	2014/0349706	9055154	Granted
36712	36712-US-DIV	13/590268	2012/0315897	8731607	Granted
36712	36712-US-DIV[2]	13/590288	2012/0315898	8718706	Granted
36712	36712-US-PAT	12/940217	2012/0115542	8831676	Granted
36718	36718-US-PAT	12/575416	2011/0081559		Abandoned
36724	36724-US-CNT	15/139466	2016/0239541	10360213	Granted
36724	36724-US-PAT	12/646665	2011/0119287	9330139	Granted
36724	36724-US-PRV	61/262332			Converted
36726	36726-US-CNT	14/132623	2014/0104515	9367092	Granted
36726	36726-US-PAT	12/891114	2012/0075201	8638307	Granted
36732	36732-US-PAT	12/773256	2011/0276399		Publication of Application
36738	36738-US-CNT	13/396343	2012/0150961	8260966	Granted
36738	36738-US-PAT	12/692402	2011/0185010	8135866	Granted
36753	36753-US-PAT	12/687668	2011/0173434	9197676	Granted
36755	36755-US-CNT	13/857320	2013/0217446		Abandoned
36755	36755-US-PAT	12/830936	2012/0009905	8433372	Granted
36758	36758-US-PAT	13/250193	2013/0082660		Abandoned
36764	36764-US-PAT	13/249411	2013/0083040	8912984	Granted
36782	36782-US-CNT	15/349734	2017/0064530	9820125	Granted
36782	36782-US-CNT[2]	15/725107	2018/0035271	10542051	Granted
36782	36782-US-CNT[3]	16/729051	2020/0137127		Allowed (Notice of Allowance)
36782	36782-US-PCD	14/836266	2015/0365813	9538353	Granted
36782	36782-US-PCT	13/499644	2012/0269099	9125182	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36782	36782-US-PRV	61/248213			Converted
36787	36787-US-PCT	13/508302	2012/0315907	9107128	Granted
36787	36787-US-PRV	61/259059			Converted
36787-1	36787-1-US-PCT	13/508308	2013/0130688	8874113	Granted
36787-1	36787-1-US-PRV	61/259067			Converted
36790	36790-US-CNT	14/601155			Abandoned
36790	36790-US-PAT	12/712612	2011/0205154	8937598	Granted
36791	36791-US-CNT	13/693774	2013/0092737	8636217	Granted
36791	36791-US-CNT[2]	14/160683	2014/0131446	9177189	Granted
36791	36791-US-PAT	12/885862	2012/0067943	8342406	Granted
36792	36792-US-PAT	13/180917	2013/0016060		Abandoned
36798	36798-US-PAT	12/955004	2012/0134077	8564937	Granted
36803	36803-US-CNT	13/434355	2012/0244903	9380449	Granted
36803	36803-US-CNT[2]	15/160923	2016/0269924	9961583	Granted
36803	36803-US-CNT[3]	15/902681	2018/0184319	10863374	Granted
36803	36803-US-PRV	61/248406			Converted
36807	36807-US-CNT	14/134994	2014/0104120	9698468	Granted
36807	36807-US-PAT	12/945200	2011/0223873	8644894	Granted
36807	36807-US-PRV	61/313337			Converted
36812	36812-US-PAT	12/949890	2012/0131653	8689297	Granted
36817	36817-US-PAT	12/910604	2012/0097412	8618415	Granted
36826	36826-US-PAT	12/907366	2011/0143809	8832421	Abandoned
36826	36826-US-PRV	61/253112			Converted
36830	36830-US-PAT	12/703819	2011/0085527	8494506	Granted
36830	36830-US-PRV	61/250753			Converted
36831	36831-US-CNT	13/855045	2013/0225244	8787897	Granted
36831	36831-US-PAT	12/711323	2011/0086627	8412174	Granted
36831	36831-US-PRV	61/250652			Converted
36832	36832-US-CNT	14/288848	2014/0297185		Abandoned
36832	36832-US-PAT	12/819521	2011/0313653	8762041	Granted
36834	36834-US-PAT	12/903423	2011/0087990	9116615	Granted
36834	36834-US-PRV	61/251188			Converted
36839	36839-US-PAT	12/833520	2012/0009906	8588849	Granted
36842	36842-US-CNT	13/902272	2013/0263015	9356892	Granted
36842	36842-US-PAT	12/904544	2011/0086613	8472926	Granted
36842	36842-US-PRV	61/251557			Converted
36845	36845-US-PAT	12/902363	2011/0111814	8660623	Granted
36845	36845-US-PRV	61/250923			Converted
36847	36847-US-CNT	14/034601	2014/0024417	9042949	Granted
36847	36847-US-PAT	12/902393	2011/0111720	8571599	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36847	36847-US-PRV	61/250934			Converted
36848	36848-US-PAT	12/708670	2011/0087957	8584006	Granted
36848	36848-US-PRV	61/251469			Converted
36850	36850-US-PAT	12/708694	2011/0087958	9418169	Granted
36850	36850-US-PRV	61/251507			Converted
36857	36857-US-PAT	12/696563	2011/0186413	8258418	Granted
36870	36870-US-PAT	12/947201	2012/0124079	9128939	Granted
36879	36879-US-CNT	13/748274	2013/0136120	9042375	Granted
36879	36879-US-PAT	12/709310	2011/0205960	8385267	Granted
36884	36884-US-CNT	14/311468	2014/0304443	10007637	Granted
36884	36884-US-PAT	12/958942	2012/0144078	8775707	Granted
36890	36890-US-PAT	13/031644	2012/0215467		Abandoned
36891	36891-US-PAT	12/856870	2011/0087795	8892757	Granted
36891	36891-US-PRV	61/251146			Converted
36892-1	36892-1-US-PAT	12/960949	2012/0140950	8750537	Granted
36893	36893-US-CNT	13/647118	2013/0036184	8577393	Abandoned
36893	36893-US-PAT	12/713923	2011/0081920	8301169	Abandoned
36893	36893-US-PRV	61/249444			Converted
36895	36895-US-PCT	13/635266	2013/0013750	8996662	Granted
36897	36897-US-PAT	12/969707	2012/0159183	8583937	Granted
36901	36901-US-PAT	12/963361	2012/0079417	8745522	Granted
36901	36901-US-PRV	61/386814			Converted
36907	36907-US-PAT	13/021052	2012/0202421		Abandoned
36908	36908-US-CNT	13/858721	2013/0232025	8688542	Granted
36908	36908-US-PAT	12/621282	2011/0119146	8417583	Granted
36912	36912-US-PAT	12/882387	2011/0221960		Abandoned
36912	36912-US-PRV	61/257680			Converted
36914	36914-US-PAT	12/875586	2012/0058782	9277362	Granted
36915	36915-US-CNT	13/736216	2013/0124681	9319475	Granted
36915	36915-US-PAT	12/712771	2011/0113135	8364810	Granted
36915	36915-US-PRV	61/258793			Converted
36917	36917-US-PAT	12/905423	2011/0089229	8281984	Granted
36917	36917-US-PRV	61/252710			Converted
36919	36919-US-CNT	13/719746	2013/0183945	9049591	Granted
36919	36919-US-PAT	12/855874	2012/0040646	8706097	Granted
36920	36920-US-PAT	12/621125	2011/0119447	8386718	Granted
36924	36924-US-PAT	12/959614	2012/0141104	8285133	Granted
36930	36930-US-CNT	13/769691	2013/0157701	8700075	Granted
36930	36930-US-PAT	12/713314	2011/0086647	8380231	Granted
36930	36930-US-PRV	61/251484			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
36937	36937-US-PAT	12/615103	2011/0110282	8411588	Abandoned
36940	36940-US-CNT	13/457294	2013/0016655	8958366	Granted
36940	36940-US-PRV	61/256839			Converted
36940-1	36940-1-US-CNT	13/457313	2013/0010709	8780841	Granted
36940-1	36940-1-US-CNT[2]	14/292458	2014/0269585	9100957	Granted
36940-1	36940-1-US-CNT[3]	14/805858	2015/0333889	9345018	Granted
36940-1	36940-1-US-PRV	61/256841			Converted
36942	36942-US-PCT	13/505241	2012/0243430	8989033	Granted
36942	36942-US-PRV	61/256730			Converted
36943	36943-US-PAT	12/712482	2011/0205700	9075576	Granted
36944	36944-US-PAT	12/710996	2011/0203913	8253052	Granted
36945	36945-US-PAT	12/797688	2011/0304554		Abandoned
36947	36947-US-PAT	12/826859	2012/0000759	8283582	Granted
36950	36950-US-CNT	13/180616	2011/0267208	8633837	Granted
36950	36950-US-PAT	12/713613		7990297	Granted
36950-1	36950-1-US-CNT	13/316958	2012/0098682	8638247	Granted
36950-1	36950-1-US-PAT	12/713576	2011/0210874	8077064	Granted
36950-2	36950-2-US-CNT	13/207496	2011/0291867	8638246	Granted
36950-2	36950-2-US-PAT	12/713542	2011/0210873	8063801	Granted
36956	36956-US-PAT	12/815269	2011/0307581	9497290	Granted
36957	36957-US-PAT	12/917431	2012/0110201	8468262	Granted
36958	36958-US-PAT	13/022572	2012/0203867	9661104	Granted
36962	36962-US-PAT	12/861287	2011/0208417	8924142	Granted
36962	36962-US-PRV	61/290571			Converted
36963	36963-US-PAT	12/852751	2011/0231091	9037405	Granted
36963	36963-US-PRV	61/290574			Converted
36964	36964-US-CNT	14/333671	2014/0329541	9641966	Granted
36964	36964-US-PAT	13/016139	2012/0194388	8810453	Granted
36967	36967-US-CNT	13/962772	2013/0325331	8744762	Granted
36967	36967-US-CNT[2]	14/293866	2014/0278058	9261366	Granted
36967	36967-US-PAT	12/962874	2011/0184640	8532920	Granted
36967	36967-US-PRV	61/297435			Converted
36968	36968-US-PAT	12/828467	2011/0160988	8433505	Granted
36968	36968-US-PRV	61/290577			Converted
36974	36974-US-PAT	13/032919	2012/0215468	8793086	Granted
36980	36980-US-PAT	13/237890	2012/0069817	9723528	Granted
36980	36980-US-PRV	61/384655			Converted
36985	36985-US-CNT	13/675719	2013/0070119	8582000	Granted
36985	36985-US-PAT	12/789739	2011/0292239	8339472	Granted
36988	36988-US-PAT	13/032104	2012/0211656	8618482	Granted

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37006	37006-US-CNT	13/611757	2013/0064197	8976677	Granted
37006-1	37006-1-US-CNT	13/611984	2013/0003591	8830863	Granted
37006-2	37006-2-US-CNT	13/612189	2013/0005240	9088995	Granted
37006-2	37006-2-US-CNT[2]	14/804099	2015/0327328	9282588	Granted
37014	37014-US-PAT	13/094528	2012/0275086	9436281	Granted
37016	37016-US-CNT	14/149464	2014/0120831	9037083	Granted
37016	37016-US-PAT	12/974395	2012/0156992	8655274	Granted
37021	37021-US-CNT	14/820242	2015/0351019	10123259	Granted
37021	37021-US-PAT	12/858584	2012/0047269	9107142	Granted
37029	37029-US-PAT	12/766019	2011/0260983	8736559	Granted
37031	37031-US-PAT	12/899655	2012/0088446	8457692	Granted
37035	37035-US-PAT	13/049200	2012/0236959	8553802	Granted
37035-1	37035-1-US-PAT	13/049243	2012/0236960	8588330	Granted
37035-2	37035-2-US-PAT	13/049272	2012/0236965	8594233	Granted
37041	37041-US-PAT	12/873994	2012/0054822	8613061	Granted
37047	37047-US-PAT	13/083104	2011/0265038	9152951	Granted
37047	37047-US-PRV	61/327258			Converted
37050	37050-US-CNT	14/592039	2015/0128127	9471296	Granted
37050	37050-US-PAT	12/796703	2011/0271273	8954954	Granted
37050	37050-US-PRV	61/329849			Converted
37053	37053-US-PAT	13/018866	2012/0195254	8798190	Granted
37055	37055-US-CNT	14/135005	2014/0104218	9230507	Granted
37055	37055-US-PAT	13/011084	2012/0191993	8635560	Granted
37056	37056-US-PAT	13/070798	2012/0244837	8611861	Granted
37058	37058-US-CIP	12/831036	2011/0205179		Abandoned
37059	37059-US-PAT	12/954803	2012/0134390	8761228	Granted
37071	37071-US-PAT	12/969878	2012/0159583	8635676	Granted
37072	37072-US-PAT	12/969647	2012/0159594	8745694	Granted
37074	37074-US-PAT	12/969646	2012/0159616	8650635	Granted
37077	37077-US-PAT	12/969797	2012/0159582	8650624	Granted
37083	37083-US-PAT	13/271570	2013/0093514	8981749	Granted
37086	37086-US-CNT	14/499775	2015/0017971	9274604	Granted
37086	37086-US-PAT	12/851282	2012/0032892	8855705	Granted
37089	37089-US-PAT	13/116321	2012/0106525	8576826	Granted
37089	37089-US-PRV	61/408345			Converted
37092	37092-US-CNT	15/089094	2016/0291864		Abandoned
37092	37092-US-PAT	12/945161	2012/0120000		Abandoned
37094	37094-US-PAT	12/616641	2011/0111267	8541117	Granted
37097	37097-US-PAT	13/010539	2012/0192114	9582144	Granted
37099	37099-US-PAT	13/010580	2012/0192067	9618972	Granted

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37102	37102-US-CNT	14/152032	2014/0128045	9071685	Granted
37102	37102-US-PAT	12/820016	2011/0312315	8630682	Granted
37105	37105-US-PAT	13/025863	2012/0208590		Abandoned
37106	37106-US-PAT	13/052450	2012/0243578	8681838	Granted
37109	37109-US-PAT	12/856788	2012/0040611	8983371	Granted
37114	37114-US-PAT	12/951599	2012/0129569	9014656	Granted
37120	37120-US-PAT	12/751170	2011/0113369		Abandoned
37120	37120-US-PRV	61/258816			Converted
37120-1	37120-1-US-PAT	12/751186	2011/0113370	8656316	Granted
37120-2	37120-2-US-CNT	14/081037	2014/0073253	8824965	Granted
37120-2	37120-2-US-PAT	12/751215	2011/0111696	8588693	Granted
37120-3	37120-3-US-PAT	12/751235	2011/0113087	9510135	Granted
37121	37121-US-PAT	12/751263	2011/0111697		Abandoned
37121	37121-US-PRV	61/258820			Converted
37128	37128-US-PAT	12/954186	2015/0056919	9253803	Granted
37131	37131-US-CNT	13/758149	2013/0152213	9355254	Granted
37131	37131-US-PAT	12/956296	2012/0137368	8397294	Granted
37132	37132-US-PCT	14/235384	2014/0173704	9864851	Granted
37135	37135-US-CIP	12/770461	2011/0073456	8362371	Granted
37145	37145-US-PAT	13/005164	2012/0177229	9544678	Granted
37148	37148-US-CNT	13/942905	2013/0311585	8874678	Granted
37148	37148-US-PAT	12/842212	2012/0023174	8521822	Granted
37149	37149-US-CNT	13/748771	2013/0137280		Abandoned
37149	37149-US-PAT	12/975625	2012/0164849	8382486	Granted
37152	37152-US-PAT	12/968359	2012/0159394	8751967	Granted
37154	37154-US-PAT	12/878200	2012/0062601	8675023	Granted
37160-1	37160-1-US-CNT	13/793159	2013/0199908		Abandoned
37160-1	37160-1-US-PAT	12/833178	2012/0008300	8417303	Granted
37169	37169-US-PAT	12/963377	2012/0151304	8438463	Granted
37182	37182-US-PAT	13/023074	2012/0202092		Abandoned
37183	37183-US-PAT	12/899610	2012/0088552	8839148	Granted
37186	37186-US-CNT	14/149748	2014/0120884	9386156	Granted
37186	37186-US-CNT[2]	15/200794	2016/0316060	9800730	Granted
37186	37186-US-PAT	12/901401	2012/0089401	8655661	Granted
37188	37188-US-PAT	13/271287	2013/0096931	8825497	Granted
37194	37194-US-PAT	13/040384	2012/0224300	8498102	Granted
37199	37199-US-PAT	12/956869	2012/0134503	8995672	Granted
37200	37200-US-PAT	12/831834	2012/0006667	8492666	Granted
37201	37201-US-PAT	12/835007	2012/0017081	8397274	Granted
37221	37221-US-CNT	14/304057	2014/0304517	9455830	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
37221	37221-US-PAT	12/902638	2012/0087493	8756706	Granted
37222	37222-US-PAT	12/893522	2012/0079593	8650639	Granted
37223	37223-US-PAT	12/899282	2012/0089847	8566911	Granted
37225	37225-US-PAT	12/895480	2012/0084243		Abandoned
37229	37229-US-PAT	12/844627	2012/0030454	8700934	Granted
37242	37242-US-CNT	14/459101	2014/0354409	9396644	Granted
37242	37242-US-CNT[2]	15/210341	2016/0323844	9900861	Granted
37242	37242-US-PAT	12/893552	2012/0075099	8836510	Granted
37245	37245-US-PAT	12/904667	2012/0096085		Abandoned
37246	37246-US-PAT	13/278898	2013/0099724	8854002	Granted
37257	37257-US-PAT	13/335656	2013/0163768	9706321	Granted
37259	37259-US-PAT	12/890238	2012/0078998	8458248	Granted
37265	37265-US-CNT	13/473409	2012/0289203	9002326	Granted
37267	37267-US-PAT	12/978498	2012/0164956	8660607	Granted
37287	37287-US-CIP	13/036989	2012/0163344	8750245	Abandoned
37288	37288-US-CNT	14/330899	2014/0323107	9509830	Granted
37288	37288-US-PCT	13/634235	2013/0005405	8781456	Granted
37293	37293-US-CNT	14/206909	2014/0247722	9351194	Granted
37293	37293-US-PAT	12/685636	2011/0170408	8693320	Granted
37296	37296-US-PAT	12/977245	2012/0167232	9135429	Granted
37303	37303-US-PAT	12/780603	2011/0280229	8929346	Granted
37303-1	37303-1-US-PAT	12/780709	2011/0280231	8442024	Granted
37303-2	37303-2-US-PAT	12/780722	2011/0282961	8458279	Granted
37303-3	37303-3-US-PAT	12/780614	2011/0280230	8681769	Granted
37305	37305-US-PAT	12/947062	2012/0124375	9264235	Granted
37314	37314-US-PAT	13/022089	2012/0200496	8730160	Granted
37320	37320-US-PAT	13/011232	2012/0188688	8630089	Granted
37327	37327-US-PAT	12/683236	2011/0164541	8570943	Abandoned
37328	37328-US-PAT	12/684665	2011/0170516	8605684	Granted
37329	37329-US-PAT	12/779809	2011/0280227	8665842	Granted
37329-1	37329-1-US-PAT	12/779820	2011/0280228	8644276	Granted
37329-2	37329-2-US-PAT	12/779822	2011/0280180	8467359	Granted
37335	37335-US-PAT	13/191858	2013/0029729	8406817	Granted
37341	37341-US-CNT	13/488492	2012/0244919	8478372	Granted
37341	37341-US-PAT	12/900929	2012/0088560	8285350	Granted
37343	37343-US-CNT	14/223626	2014/0203904	9269207	Granted
37343	37343-US-PAT	12/888620	2012/0077431	8682245	Granted
37343	37343-US-PAT[2]	13/241501	2012/0075057		Abandoned
37344	37344-US-PAT	12/888599	2012/0075059	8912879	Granted
37351	37351-US-PAT	13/179800	2013/0017780	8718626	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
37355	37355-US-PAT	12/888632	2012/0075068	8669844	Granted
37357	37357-US-PAT	12/856766	2012/0042363	8869248	Granted
37358	37358-US-PAT	12/713628	2011/0212688	8670709	Granted
37359	37359-US-PAT	12/852846	2012/0034867	9072052	Granted
37370	37370-US-CNT	14/590673	2015/0126122	9253812	Granted
37370	37370-US-CNT[2]	14/980078	2016/0135245	9510385	Granted
37370	37370-US-PCT	13/635326	2013/0005266	8934839	Granted
37385	37385-US-PAT	12/684200	2011/0170495	8638815	Granted
37392	37392-US-PAT	12/888642	2012/0077432	8798532	Granted
37392	37392-US-PAT[2]	13/241548	2012/0214413	8774713	Granted
37393	37393-US-PAT	12/961416	2012/0141842	8685553	Granted
37397	37397-US-PAT	12/837813	2012/0014371	8526420	Granted
37405	37405-US-PCT	13/514467	2012/0302196	9497792	Granted
37405	37405-US-PRV	61/293556			Converted
37409	37409-US-CNT	14/266796	2014/0233463	9113403	Granted
37409	37409-US-PAT	12/813954	2011/0305192	8755329	Granted
37413	37413-US-PAT	12/827715	2012/0003988	8433335	Granted
37416	37416-US-PAT	12/829958	2011/0191489	8949384	Granted
37416	37416-US-PRV	61/301484			Converted
37420	37420-US-PAT	13/832313	2014/0273889	9197279	Granted
37421	37421-US-PAT	12/705491	2011/0199986	8305987	Granted
37421-1	37421-1-US-PCT	13/578573	2013/0044685	8923203	Granted
37421-1	37421-1-US-PRV	61/304364			Converted
37421-2	37421-2-US-CNT	15/040619	2016/0174235	9888484	Granted
37421-2	37421-2-US-PCT	13/578550	2013/0039203	9270347	Granted
37421-2	37421-2-US-PRV	61/304366			Converted
37422	37422-US-PAT	12/971399	2011/0244836	9185210	Granted
37422	37422-US-PRV	61/320235			Converted
37423	37423-US-PAT	12/901209	2012/0088543	8626236	Granted
37430	37430-US-PAT	12/828668	2011/0179465	9264448	Granted
37430	37430-US-PRV	61/296824			Converted
37446	37446-US-PAT	12/685630	2011/0170410	8416690	Granted
37447	37447-US-PAT	12/685649	2011/0170496	8804586	Granted
37447-1	37447-1-US-PRV	61/294087			Converted
37447-2	37447-2-US-PRV	61/294089			Converted
37447-3	37447-3-US-PRV	61/294091			Converted
37450	37450-US-PAT	13/041779	2012/0231848	8611973	Granted
37455	37455-US-PAT	13/433747	2012/0254616	9490974	Granted
37462	37462-US-PCT	14/235433			Abandoned
37464	37464-US-CNT	13/618591	2013/0009992	8571579	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
37464	37464-US-CNT[2]	14/048828	2014/0028718	8971970	Granted
37464	37464-US-PAT	12/901249	2012/0088526	8315674	Granted
37470	37470-US-CNT	13/709841	2013/0094524	8867647	Granted
37470	37470-US-PAT	12/684817	2011/0170575	8331478	Granted
37471	37471-US-PAT	13/304442	2013/0134923		Abandoned
37473	37473-US-PAT	12/707223	2011/0200081	8665930	Abandoned
37474	37474-US-PAT	12/971223	2012/0154288	9569002	Granted
37475	37475-US-PAT	12/872367	2012/0054314	9319355	Granted
37481	37481-US-PAT	13/072955	2012/0254316	8949349	Granted
37482	37482-US-PAT	13/025516	2012/0208586	8538439	Granted
37490	37490-US-PAT	12/870162	2011/0202861	8448085	Granted
37490	37490-US-PRV	61/304706			Converted
37495	37495-US-PAT	12/776880	2011/0275413	8412279	Granted
37496	37496-US-CNT	13/762633	2013/0165056	8600320	Granted
37496	37496-US-PAT	12/984170	2012/0171970	8391806	Granted
37506-1	37506-1-US-PAT	13/038138	2011/0216719	8767571	Granted
37506-3	37506-3-US-CNT	14/919485	2016/0044500	10292046	Granted
37506-3	37506-3-US-CNT[2]	16/397636	2019/0253877		Publication of Application
37506-3	37506-3-US-PAT	13/038151	2011/0217980	9173198	Granted
37511	37511-US-PAT	12/776868	2011/0273381	8723814	Granted
37515	37515-US-PAT	12/963278	2012/0151571	8955089	Granted
37516	37516-US-PAT	12/830548	2012/0008680	8582639	Granted
37530	37530-US-PAT	12/860007	2012/0046050	9374670	Granted
37534	37534-US-CNT	13/648167	2013/0035116	8825084	Granted
37534	37534-US-PAT	12/870676	2012/0052880	8326327	Granted
37536	37536-US-PAT	13/040521	2012/0224301		Abandoned
37541	37541-US-PAT	12/950894	2012/0127087	9213428	Granted
37542	37542-US-PAT	12/958789	2012/0144338	8863020	Granted
37550	37550-US-PAT	12/766013	2011/0261701	8767707	Granted
37551	37551-US-CNT	14/085370	2014/0082159	9241034	Granted
37551	37551-US-PAT	12/731138	2011/0238794	8620986	Granted
37552	37552-US-PCT	13/814012	2013/0133055	9342677	Granted
37558	37558-US-CNT	13/917099	2013/0273785	8696391	Granted
37558	37558-US-PAT	12/971039	2012/0156907	8469749	Granted
37558-1	37558-1-US-PAT	12/971069	2012/0156901	8348684	Granted
37565	37565-US-PAT	13/040546	2012/0224302		Abandoned
37568	37568-US-PAT	12/943667	2012/0112933	8926201	Granted
37570	37570-US-CNT	14/980644	2016/0314310	10296755	Granted
37570	37570-US-PAT	13/074136	2012/0124640	9225727	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
37570	37570-US-PRV	61/413846			Converted
37575	37575-US-PAT	12/705568	20110200126	8855240	Granted
37588	37588-US-CNT	13/360108	2012/0127880	8849291	Granted
37588	37588-US-CNT[2]	13/894169	2013/0265966	9532363	Granted
37588	37588-US-PAT	12/723396	2011/0223900	8204507	Granted
37591	37591-US-PAT	12/758382	2011/0248933	8600460	Abandoned
37594	37594-US-PAT	12/968652	2012/0154341	8633896	Granted
37595	37595-US-PAT	12/869896	2012/0050166	8698016	Granted
37596	37596-US-PAT	13/327834	2012/0155682	9020175	Granted
37596	37596-US-PRV	61/424177			Converted
37597	37597-US-PAT	13/082662	2012/0257536	8699379	Granted
37605	37605-US-PAT	12/881873	2011/0223447		Abandoned
37605	37605-US-PRV	61/314086			Converted
37609	37609-US-CNT	13/692695	2013/0094463	8891496	Granted
37609	37609-US-PAT	12/705459	2011/0200018	8325685	Granted
37611	37611-US-CNT	13/887181	2013/0242854	9210713	Granted
37611	37611-US-PAT	12/704739	2011/0199985	8437268	Granted
37611	37611-US-PRV	61/303919			Converted
37615	37615-US-CNT	14/642035	2015/0178517	9443100	Granted
37615	37615-US-PAT	12/823641	2011/0321153	8977866	Granted
37618	37618-US-PAT	13/278802	2013/0103943	8966656	Granted
37620	37620-US-PAT	12/813878	2011/0202797	8495422	Granted
37620	37620-US-PRV	61/303925			Converted
37622	37622-US-CNT	13/907238	2013/0260838	8977320	Granted
37622	37622-US-PAT	13/052380	2012/0244909	8478371	Granted
37631	37631-US-PAT	12/949940	2012/0126940	8536978	Granted
37638	37638-US-PAT	12/797659	2011/0307540	10142157	Granted
37656	37656-US-PAT	13/017473	2012/0196530	8831509	Granted
37664	37664-US-PAT	12/855994	2012/0040609	8626065	Granted
37671	37671-US-PAT	12/917022	2012/0110051	8793298	Granted
37681	37681-US-CNT	14/478375	2014/0378162	9351109	Granted
37681	37681-US-PAT	12/897248	2012/0083285	8862146	Granted
37685	37685-US-PAT	12/765581	2011/0260929	8779991	Granted
37689	37689-US-PAT	12/875387	2012/0055960	8528798	Granted
37693	37693-US-CNT	13/442968	2012/0195011	8417300	Granted
37693	37693-US-CNT[2]	13/799322	2013/0196722	8666462	Granted
37693	37693-US-PAT	12/868763	2012/0052916	8180412	Granted
37696	37696-US-DIV	14/707849	2015/0245338	10321436	Granted
37696	37696-US-PAT	12/759383	2011/0249619		Abandoned
37696-1	37696-1-US-PAT	12/759422	2011/0249620	8619795	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
37697	37697-US-PAT	13/045104	2012/0229349	8952852	Granted
37700	37700-US-PAT	13/112202	2012/0293368	8797217	Granted
37702	37702-US-PAT	12/820883	2011/0310865	8594061	Granted
37706	37706-US-PAT	12/813261	2011/0219132	9178947	Granted
37706	37706-US-PRV	61/309984			Converted
37708	37708-US-PAT	13/070178	2012/0246465	9003181	Granted
37709	37709-US-CNT	14/252048	2014/0218287	9558714	Granted
37709	37709-US-PAT	12/938799	2012/0105490	8717393	Granted
37715	37715-US-CNT	13/956633	2013/0316761	9107241	Granted
37715	37715-US-CNT[2]	14/822520	2015/0351025	10631364	Granted
37715	37715-US-PAT	13/205369	2013/0040697	8527001	Granted
37716	37716-US-PAT	13/034823	2011/0319028	8811978	Granted
37716	37716-US-PRV	61/359002			Converted
37719	37719-US-CNT	14/453008	2014/0349616	9042818	Granted
37719	37719-US-PAT	13/161711	2012/0322369	8824960	Granted
37724	37724-US-PAT	13/253478	2013/0088192	9419444	Granted
37724-1	37724-1-US-CNT	14/082987	2014/0156772	9319855	Granted
37724-1	37724-1-US-PAT	13/253490	2013/0091225	8645481	Granted
37728	37728-US-PAT	12/819335	2011/0217953	9178949	Granted
37728	37728-US-PRV	61/310016			Converted
37738	37738-US-PAT	13/045165	2011/0222492	8730886	Granted
37748	37748-US-PAT	12/970223	2012/0158283	8688362	Granted
37754	37754-US-PAT	13/167913	2012/0327048	8730657	Granted
37757	37757-US-PAT	12/823673	2011/0320402	9122709	Granted
37759	37759-US-CNT	14/488484	2015/0003430	9332511	Granted
37759	37759-US-CNT[2]	15/136104	2016/0242133	9807715	Granted
37759	37759-US-CNT[3]	15/797246	2018/0063804	10972988	Granted
37759	37759-US-CNT[4]	17/200181	2021/0204237		Publication of Application
37759	37759-US-PAT	13/045125	2011/0223932	8867497	Granted
37760	37760-US-CNT	14/973012	2016/0113039		Abandoned
37760	37760-US-CNT[2]	15/394081	2017/0111907	10966195	Granted
37760	37760-US-PAT	13/045078	2011/0222475	9226254	Granted
37760-1	37760-1-US-PAT	13/045088	2011/0222476	9370026	Granted
37760-2	37760-2-US-CNT	16/729208	2020/0137808		Publication of Application
37760-2	37760-2-US-PAT	13/045099	2011/0222527	10531499	Granted
37763	37763-US-PAT	13/173181	2013/0003995	8848947	Granted
37773	37773-US-PAT	12/908400	2012/0098846	8810581	Granted
37774	37774-US-PCT	13/578970	2013/0191373		Abandoned
37774	37774-US-PRV	61/304665			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
37781	37781-US-PCT	13/578994	2013/0218923	9104721	Granted
37781	37781-US-PRV	61/327342			Converted
37782	37782-US-PCT	13/578956	2013/0144855		Abandoned
37782	37782-US-PRV	61/327355			Converted
37791	37791-US-PAT	13/286633	2013/0109443	8509861	Granted
37791	37791-US-PAT[2]	13/286669	2013/0106341	8829847	Granted
37793	37793-US-CIP	12/827155	2011/0159842	8508379	Granted
37794	37794-US-PAT	12/829914	2012/0001851	9886066	Granted
37797	37797-US-PAT	13/251730	2013/0084736	8834208	Granted
37802	37802-US-CNT	14/057858	2014/0045559	8803701	Granted
37802	37802-US-PAT	13/030884	2012/0044081	8581739	Granted
37802	37802-US-PRV	61/305924			Converted
37803	37803-US-PAT	12/707797	2011/0200104	8487791	Granted
37806-1	37806-1-US-PAT	13/095338	2012/0274527	8786507	Granted
37806-2	37806-2-US-PAT	13/095456	2012/0274523	8624788	Granted
37808	37808-US-PAT	12/945457	2011/0201393	9544406	Granted
37808	37808-US-PRV	61/304555			Converted
37810	37810-US-PAT	13/035421	2012/0218699	8451595	Granted
37812	37812-US-PAT	13/005347	2011/0306392	8718721	Granted
37812	37812-US-PRV	61/353322			Converted
37818	37818-US-CNT	14/992346	2016/0128122	9468032	Granted
37818	37818-US-PCT	13/583499	2013/0331135	9237590	Granted
37819	37819-US-PAT	13/021022	2012/0200502	9092192	Granted
37819-2	37819-2-US-PAT	13/021010	2012/0199457	8362372	Granted
37821	37821-US-CNT	13/674616	2013/0072265	8909303	Granted
37821	37821-US-PAT	12/888915	2012/0077480	8326370	Granted
37822	37822-US-PAT	12/905574	2012/0092140	9513616	Granted
37825	37825-US-PAT	12/964335	2012/0151236	9250691	Granted
37827	37827-US-PCT	13/579260	2012/0314386	9210240	Granted
37827	37827-US-PRV	61/304721			Converted
37833	37833-US-CNT	14/285736	2014/0253456	10061394	Granted
37833	37833-US-PCT	13/578937	2012/0306762	8780051	Granted
37833	37833-US-PRV	61/304576			Converted
37835	37835-US-PAT	13/007185	2011/0201389	8862190	Granted
37835	37835-US-PRV	61/304603			Converted
37836	37836-US-PAT	13/019008	2011/0201390	9020570	Granted
37836	37836-US-PRV	61/304693			Converted
37837	37837-US-PAT	13/018991	2011/0200859	8833805	Granted
37837	37837-US-PRV	61/304577			Converted
37838	37838-US-PAT	13/027086	2012/0039029	8638556	Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
37838	37838-US-PRV	61/304709			Converted
37842	37842-US-CNT	13/786069	2013/0178254	8965465	Granted
37842	37842-US-PAT	12/943368	2011/0201392	8417301	Granted
37842	37842-US-PRV	61/304534			Converted
37844	37844-US-PAT	13/090464	2011/0264783	8880624	Granted
37844	37844-US-PRV	61/327407			Converted
37845	37845-US-PAT	13/037018	2012/0221850	8572367	Granted
37848	37848-US-CNT	13/620130	2013/0012193	8483673	Granted
37848	37848-US-CNT[2]	13/910772	2013/0267212	8615222	Granted
37848	37848-US-PAT	12/897074	2012/0083250	8306513	Granted
37851	37851-US-PAT	13/073630	2012/0249428	8471820	Granted
37852	37852-US-PAT	12/781585	2011/0282915	9325677	Granted
37858	37858-US-PAT	12/820902	2011/0309980	8446318	Granted
37876	37876-US-CNT	14/979804	2016/0191198	9967055	Granted
37876	37876-US-PAT	13/204753	2013/0039266		Abandoned
37877	37877-US-CNT	15/055027	2016/0183156	10098049	Granted
37877	37877-US-CNT[2]	16/002974	2018/0310218	10701611	Granted
37877	37877-US-CNT[3]	15/930576	2020/0275339		Publication of Application
37877	37877-US-PCT	13/825996	2013/0308527	9301333	Granted
37877	37877-US-PRV	61/387297			Converted
37877-1	37877-1-US-PCT	13/576432	2012/0300750	8989142	Granted
37877-1	37877-1-US-PRV	61/387310			Converted
37877-2	37877-2-US-CNT	14/565800	2015/0092665	9713196	Granted
37877-2	37877-2-US-CNT[2]	15/601097	2017/0257905	10187911	Granted
37877-2	37877-2-US-CNT[3]	16/227196	2019/0124717	10743366	Granted
37877-2	37877-2-US-PAT	13/246573	2012/0076121	8937924	Granted
37877-2	37877-2-US-PCT[2]	13/876019	2013/0188604		Abandoned
37877-2	37877-2-US-PRV	61/387323			Converted
37881	37881-US-PAT	12/974051	2012/0155637	8621189	Granted
37882	37882-US-CNT[2]	13/912677	2013/0275882	9628421	Granted
37882	37882-US-PAT	12/889993	2012/0079033	8930468	Granted
37882	37882-US-PAT[2]	13/118639	2012/0079041	8484302	Granted
37896	37896-US-PAT	13/253195	2013/0088191	9083198	Granted
37899	37899-US-PAT	13/168139	2012/0327014		Abandoned
37900	37900-US-PAT	13/273768	2013/0095777	8478213	Granted
37901	37901-US-CNT	13/788978	2013/0182582	8792412	Granted
37901	37901-US-PAT	12/768016	2011/0261745	8416731	Granted
37907	37907-US-PAT	13/033972	2012/0218082	8934835	Granted
37919	37919-US-CNT	13/869062	2013/0233688	8658925	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
37919	37919-US-PAT	12/889594	2012/0073941	8431849	Granted
37920	37920-US-PAT	12/915655	2012/0106092	8744535	Granted
37921	37921-US-PAT	13/025315	2012/0206329	8823638	Granted
37924	37924-US-PAT	12/889672	2012/0075809	8508927	Granted
37932	37932-US-PAT	13/035768	2011/0263235	8620282	Granted
37932	37932-US-PRV	61/327537			Converted
37934	37934-US-PRV	61/321349			Converted
37935	37935-US-PAT	12/976443	2012/0160640	8502097	Granted
37940	37940-US-PAT	13/038640	2012/0226912	9087182	Granted
37942	37942-US-PCT	13/581230	2013/0039190		Abandoned
37942	37942-US-PRV	61/308775			Converted
37947	37947-US-PAT	13/009149	2012/0184231		Abandoned
37953	37953-US-PAT	12/973464	2012/0157097	8521135	Granted
37954	37954-US-PAT	12/970025	2012/0155396	8644177	Granted
37959	37959-US-PAT	13/100414	2012/0281015	9041733	Granted
37962	37962-US-CNT	14/278051	2014/0248892	9054780	Granted
37962	37962-US-DIV	13/898098	2013/0252658	8774853	Granted
37962	37962-US-PAT	12/839622	2012/0021800	8538351	Granted
37986	37986-US-DIV	14/210922	2014/0198832	9319155	Granted
37986	37986-US-PAT	12/834675	2012/0009884	8750798	Granted
37999	37999-US-PAT	12/966357	2012/0147243	8379123	Granted
38011	38011-US-PAT	13/071978	2012/0241298	8598476	Granted
38013	38013-US-CNT	15/198639	2016/0330101	10367716	Granted
38013	38013-US-PAT	12/820638	2011/0310864	9385938	Granted
38013-2	38013-2-US-CNT	14/015288	2014/0023018	9155001	Granted
38013-2	38013-2-US-PAT	12/820710	2011/0310812	8570962	Granted
38016	38016-US-PAT	12/767067	2011/0265172	8918848	Granted
38018	38018-US-CNT	13/632814	2013/0031486	9143598	Granted
38018	38018-US-PAT	12/831459	2012/0009903	8285258	Granted
38020	38020-US-PAT	12/770060	2011/0271099	8898453	Granted
38022	38022-US-CNT	14/851866	2015/0379157	9898546	Granted
38022	38022-US-PAT	13/053480	2012/0246257	9275162	Granted
38025	38025-US-CNT	13/438867	2012/0194363	8730071	Granted
38025	38025-US-PAT	12/758905	2011/0248872	8174414	Granted
38027	38027-US-CNT	14/730684	2015/0270079	9263209	Granted
38027	38027-US-PAT	12/874269	2012/0055770	9082566	Granted
38028	38028-US-CIP	13/215814	2012/0133583	8982063	Granted
38031	38031-US-PAT	13/273717	2013/0093660	9007300	Granted
38034	38034-US-PAT	12/783335	2011/0275414	8457696	Granted
38035	38035-US-PAT	12/815446	2011/0258301	9584624	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
38035	38035-US-PRV	61/324589			Converted
38039	38039-US-PAT	13/022450	2012/0204127	9665250	Granted
38041	38041-US-PCT	13/379337	2012/0167199	10325086	Granted
38041-1	38041-1-US-CNT	14/712013	2015/0248547	10176315	Granted
38041-1	38041-1-US-PAT	12/815763	2010/0322485	9064104	Granted
38046	38046-US-PAT	13/051547	2012/0235894	9812074	Granted
38048	38048-US-PAT	13/051470	2012/0235893	9117384	Granted
38051	38051-US-PAT	12/938422	2012/0017166	9094785	Granted
38051	38051-US-PRV	61/364849			Converted
38058	38058-US-PAT	12/940336	2011/0296039	9706581	Granted
38058	38058-US-PRV	61/349971			Converted
38061	38061-US-PAT	12/956794	2011/0296017	8898302	Granted
38061	38061-US-PRV	61/349968			Converted
38063	38063-US-CNT	15/068768	2016/0196028		Allowed (Notice of Allowance)
38063	38063-US-PAT	13/028042	2011/0258542	9285988	Granted
38063	38063-US-PRV	61/326083			Converted
38066	38066-US-PAT	13/024890	2012/0209513	8612149	Granted
38071	38071-US-CNT	13/799024	2013/0194738	9161472	Granted
38071	38071-US-PAT	12/915135	2012/0106035	8422220	Granted
38077	38077-US-PAT	13/036978	2012/0217971	9178570	Granted
38078	38078-US-CNT	13/914237	2013/0271365	9372532	Granted
38078	38078-US-PAT	12/942336	2012/0115422	8462106	Granted
38081	38081-US-PAT	12/846393	2012/0026649		Abandoned
38086	38086-US-CNT	14/074758	2014/0068473	9552127	Granted
38086	38086-US-PAT	13/011274	2012/0188153	8587539	Granted
38101	38101-US-PAT	13/045622	2011/0222520		Abandoned
38102	38102-US-CNT	15/460991	2017/0188268	10356662	Granted
38102	38102-US-CNT[2]	16/428350	2019/0289501	10893442	Granted
38102	38102-US-CNT[3]	17/146189	2021/0136630		Publication of Application
38102	38102-US-PAT	13/045658	2011/0225272	9615383	Granted
38108	38108-US-PAT	13/490587	2013/0225169	8903383	Granted
38113	38113-US-PAT	12/982152	2012/0171886	8472205	Granted
38119	38119-US-CNT	13/600608	2012/0323847	8515907	Granted
38119	38119-US-PAT	12/766878	2011/0264621	8290900	Granted
38127	38127-US-CNT	13/161706	2012/0002564	8787186	Granted
38127	38127-US-CNT[2]	15/254736	2016/0374116	9814077	Granted
38127	38127-US-DIV	14/332702	2014/0328278	9462610	Granted
38127	38127-US-PRV	61/363453			Converted
38128	38128-US-CNT	14/245246	2014/0222933	10511559	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
38128	38128-US-PAT	12/966077	2011/0231499		Abandoned
38128	38128-US-PRV	61/316247			Converted
38135	38135-US-PAT	13/032382	2011/0260628	8502473	Granted
38135	38135-US-PRV	61/327890			Converted
38138	38138-US-PAT	12/944450	2011/0278937	8810073	Granted
38138	38138-US-PRV	61/334489			Converted
38145	38145-US-PAT	12/904385	2011/0275421	9413057	Granted
38145	38145-US-PRV	61/331994			Converted
38147	38147-US-PAT	13/053901	2011/0246428	9467338	Granted
38147	38147-US-PRV	61/319954			Converted
38152	38152-US-PAT	13/091604	2011/0263231	8548450	Granted
38152	38152-US-PRV	61/327395			Converted
38153	38153-US-CNT	14/291218	2014/0273997	9558249	Granted
38153	38153-US-PAT	13/091626	2011/0263232	8744415	Granted
38153	38153-US-PRV	61/327408			Converted
38156	38156-US-PAT	13/092850	2011/0265035	8631350	Granted
38156	38156-US-PRV	61/327586			Converted
38161	38161-US-PAT	12/967176	2012/0146790	8625774	Granted
38170	38170-US-PAT	13/035260	2012/0218688	8665594	Granted
38177	38177-US-CNT	13/629092	2013/0031608	9712377	Granted
38177	38177-US-PRV	61/320125			Converted
38186	38186-US-PAT	13/103359	2012/0290965	8819576	Granted
38188	38188-US-PCT	13/641367	2013/0091585	8893296	Granted
38188	38188-US-PRV	61/324686			Converted
38190	38190-US-PAT	12/951615	2012/0127061	8606340	Granted
38204	38204-US-PCT	13/816687	2013/0142052		Abandoned
38204-1	38204-1-US-PCT	13/816688	2013/0150024	9094858	Granted
38205	38205-US-CNT	15/160626	2016/0267460		Allowed (Notice of Allowance)
38205	38205-US-PAT	13/249480	2013/0085875		Abandoned
38207	38207-US-PAT	13/624554	2013/0109377	9049646	Granted
38207	38207-US-PRV	61/554240			Converted
38211	38211-US-PAT	13/005911	2012/0185761	8650475	Granted
38217	38217-US-CNT	13/787567	2013/0185290	8725764	Granted
38217	38217-US-PAT	12/870283	2011/0264689	8423570	Granted
38217	38217-US-PRV	61/326314			Converted
38219	38219-US-PAT	12/955056	2012/0133328	8610403	Granted
38220	38220-US-PAT	13/036827	2012/0221464		Abandoned
38221	38221-US-PAT	12/892113	2012/0075486	9780781	Granted
38223	38223-US-PAT	12/906492	2012/0017173		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
38223	38223-US-PRV	61/364475			Converted
38226	38226-US-PAT	13/011161	2012/0017148		Abandoned
38226	38226-US-PRV	61/364517			Converted
38229	38229-US-PAT	12/900893	2012/0088553	8351993	Granted
38242	38242-US-PAT	12/956864	2011/0292889	8576790	Granted
38242	38242-US-PRV	61/349973			Converted
38249	38249-US-PAT	12/975594	2012/0165035		Abandoned
38252	38252-US-CNT	14/584458	2015/0156710	9271226	Granted
38252	38252-US-CNT[2]	15/046028	2016/0165528	9642075	Granted
38252	38252-US-PAT	12/893835	2012/0076117	8923257	Granted
38252-1	38252-1-US-PAT	12/893842	2012/0076118		Abandoned
38255	38255-US-CNT	14/795951	2015/0341745	9485611	Granted
38255	38255-US-CNT[2]	15/280736	2017/0019753	9693183	Granted
38255	38255-US-PAT	12/955066	2012/0135680	9143599	Granted
38256	38256-US-CNT	13/966428	2013/0328737	8884833	Granted
38256	38256-US-PAT	12/825120	20110316755	8531344	Granted
38260	38260-US-PAT	13/087876	2011/0281596	8521143	Granted
38260	38260-US-PRV	61/326520			Converted
38261	38261-US-PAT	13/087901	2011/0263278	8521136	Reissued (Inactive Parent)
38261	38261-US-PRV	61/326511			Converted
38261	38261-US-REI	16/360979		RE48615	Granted
38272	38272-US-PCT	13/823723	2013/0285867	9735473	Granted
38273	38273-US-PAT	12/813189	2011/0307624	8423658	Granted
38281	38281-US-PCT	13/635011	2013/0007120	9043390	Granted
38281	38281-US-PRV	61/334936			Converted
38288	38288-US-PAT	12/814044	2011/0307617	9237060	Granted
38292	38292-US-PAT	12/947476	2011/0320161		Abandoned
38292	38292-US-PRV	61/358176			Converted
38297	38297-US-PAT	12/943631	2011/0255507	8638752	Granted
38297	38297-US-PRV	61/325983			Converted
38303	38303-US-PAT	13/091812	2011/0265017	9154605	Granted
38303	38303-US-PRV	61/327254			Converted
38304	38304-US-PAT	13/188521	2012/0072507		Abandoned
38304	38304-US-PRV	61/367080			Converted
38327	38327-US-PCT	13/634987	2013/0014242		Abandoned
38327	38327-US-PRV	61/334983			Converted
38328	38328-US-CNT	13/971998	2013/0336503	9257019	Granted
38328	38328-US-CNT[2]	15/016575	2016/0196107	9672000	Granted
38328	38328-US-PAT	12/886896	2011/0267180	8564421	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
38328	38328-US-PRV	61/329920			Converted
38333	38333-US-PCT	14/368737	2014/0365779	9503267	Granted
38335	38335-US-CNT	13/764935	2013/0157567	9020426	Granted
38335	38335-US-PAT	13/036565	2012/0220226	8396423	Granted
38337	38337-US-CNT	13/945417	2013/0303236	9386628	Granted
38337	38337-US-PAT	12/843525	2011/0261792	8509186	Granted
38337	38337-US-PRV	61/328097			Converted
38339	38339-US-PAT	12/939759	2011/0275352	8391457	Granted
38339	38339-US-PRV	61/328110			Converted
38344	38344-US-CNT	13/657973	2013/0045727	8583096	Granted
38344	38344-US-PAT	12/845805	2011/0263234	8326275	Granted
38344	38344-US-PRV	61/327904			Converted
38356	38356-US-PAT	12/844328	2011/0263246	9026172	Granted
38356	38356-US-PRV	61/328050			Converted
38358	38358-US-CNT	14/194055	2014/0179278		Abandoned
38358	38358-US-PAT	12/951319	2011/0263224	8688079	Granted
38358	38358-US-PRV	61/328093			Converted
38362	38362-US-PAT	12/844172	2011/0264746	8626849	Granted
38362	38362-US-PRV	61/328400			Converted
38369	38369-US-CNT	13/974702	2013/0339899		Abandoned
38369	38369-US-PAT	13/052743	2011/0265002	8555184	Granted
38369	38369-US-PRV	61/326361			Converted
38372	38372-US-PCT	13/637478	2013/0021962	9072039	Granted
38374	38374-US-PCT	13/578981	2013/0218870	9824126	Granted
38374	38374-US-PRV	61/327578			Converted
38375	38375-US-PAT	12/907674	2011/0279092	8710802	Granted
38375	38375-US-PRV	61/334779			Converted
38382	38382-US-PAT	12/903538	2011/0263223	8180406	Granted
38382	38382-US-PRV	61/328146			Converted
38387	38387-US-PAT	12/766876	2011/0263237	8958776	Granted
38388	38388-US-CNT	14/064947	2014/0050129		Abandoned
38388	38388-US-PAT	13/286723	2013/0109394	8600388	Abandoned
38392	38392-US-PAT	12/794589	2011/0299637	8744015	Granted
38408	38408-US-PAT	12/971972	2012/0033940	8682136	Granted
38408	38408-US-PRV	61/370406			Converted
38409	38409-US-CNT	14/169591	2014/0149550	9479582	Granted
38409	38409-US-PAT	12/954818	2012/0030378	8645574	Granted
38409	38409-US-PRV	61/369844			Converted
38416	38416-US-PAT	12/849183	2011/0260964	8775963	Granted
38416	38416-US-PRV	61/327196			Converted

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38419	38419-US-PAT	12/842590	2011/0265028	8756524	Granted
38419	38419-US-PRV	61/327442			Converted
38432	38432-US-PAT	13/272585	2013/0094668	8848932	Granted
38435	38435-US-PAT	13/092735	2011/0260896	8421655	Granted
38435	38435-US-PRV	61/343116			Converted
38436	38436-US-CNT	13/859508	2013/0222160	8970405	Granted
38436	38436-US-PAT	13/092698	2011/0260894	8416104	Granted
38436	38436-US-PRV	61/343117			Converted
38445	38445-US-CNT	14/842510	2015/0373526	9426640	Granted
38445	38445-US-CNT[2]	15/243570	2016/0373886	9723435	Granted
38445	38445-US-PAT	13/049131	2011/0263201	9155116	Granted
38445	38445-US-PRV	61/327295			Converted
38450	38450-US-PAT	13/089599	2011/0254712	8400336	Granted
38450	38450-US-PRV	61/325806			Converted
38451	38451-US-PAT	12/829480	2011/0264693	8918420	Granted
38451	38451-US-PRV	61/327697			Converted
38453	38453-US-PAT	13/249356	2013/0084855	8989734	Granted
38458	38458-US-PAT	13/334546	2013/0162195	8810209	Granted
38459	38459-US-PAT	13/081229	2012/0258701	8594737	Granted
38463	38463-US-CNT	15/059358	2016/0246489	10120550	Granted
38463	38463-US-PAT	13/094436	2011/0260970	9310990	Granted
38463	38463-US-PRV	61/328136			Converted
38470	38470-US-PAT	13/095416	2012/0278080	8751234	Granted
38473	38473-US-CNT	14/076311	2014/0065990	9276545	Granted
38473	38473-US-PAT	12/842126	2012/0021704	8620238	Granted
38474	38474-US-PAT	13/178582	2013/0012124	8750794	Granted
38479	38479-US-PCT	13/634829	2013/0014006	10013140	Granted
38489	38489-US-PAT	12/917835	2012/0109505		Abandoned
38493	38493-US-PAT	12/781771	2011/0280238	8681731	Granted
38505	38505-US-PCT	13/642641	2013/0084921	9432490	Granted
38505	38505-US-PRV	61/327641			Converted
38505	38505-US-PRV[2]	61/351777			Converted
38511	38511-US-PAT	13/102464	2011/0277024	8984604	Granted
38511	38511-US-PRV	61/332451			Converted
38513	38513-US-CNT	13/274604	2012/0099258	8711559	Granted
38513	38513-US-PAT	12/909202		8072749	Granted
38525	38525-US-PAT	12/891111	2012/0075232	8681119	Granted
38526	38526-US-CNT	13/681900	2013/0076917	8948693	Granted
38526	38526-US-PAT	13/028517	2012/0208551	8326281	Granted
38533	38533-US-PAT	13/022447	2012/0200508		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
38534	38534-US-PAT	13/112597	2011/0285557	8436755	Granted
38534	38534-US-PRV	61/347027			Converted
38535	38535-US-PAT	13/253252	2013/0091223	8825777	Granted
38543	38543-US-PAT	12/858528	2011/0273374	8711099	Granted
38543	38543-US-PRV	61/333106			Converted
38544	38544-US-PAT	13/092717	2012/0270596	9413944	Granted
38546	38546-US-PAT	13/102290	2011/0275411	8611957	Granted
38546	38546-US-PRV	61/332443			Converted
38559	38559-US-PAT	13/035136	2012/0221635	8577965	Granted
38562	38562-US-PAT	13/724237	2013/0167252		Abandoned
38562	38562-US-PRV	61/579224			Converted
38566	38566-US-PCT	13/583049	2013/0072148	9071682	Granted
38570	38570-US-CNT	13/829057	2013/0181950	8638297	Granted
38570	38570-US-PAT	13/015039	2012/0194432	8421752	Granted
38571	38571-US-PAT	13/015066	2012/0194483	9417696	Granted
38574	38574-US-PAT	13/604055	2014/0065497	9276276	Granted
38581	38581-US-PAT	13/398430	2013/0217350	9064243	Granted
38586	38586-US-PAT	13/027715	2012/0208455	9154190	Granted
38588	38588-US-PAT	13/024435	2012-0206370		Abandoned
38596	38596-US-PAT	13/033759	2012/0220219	8855555	Granted
38600	38600-US-PAT	13/270465	2012/0086819	8803999	Granted
38600	38600-US-PRV	61/392355			Converted
38613	38613-US-PAT	12/847036	2012/0028685	8649825	Granted
38614	38614-US-PAT	13/036427	2012/0220223	8983372	Granted
38616	38616-US-PAT	13/182660	2012/0022861	8576100	Granted
38616	38616-US-PRV	61/364378			Converted
38621	38621-US-CNT	14/205484	2014/0192508	9036367	Granted
38621	38621-US-PAT	12/903619	2011/0294553	8700108	Granted
38621	38621-US-PRV	61/348138			Converted
38632	38632-US-PAT	13/036400	2012/0220222		Abandoned
38638	38638-US-PAT	13/316171	2013/0147753	8743066	Abandoned Decision
38640	38640-US-CNT	14/304549	2014/0292320	9599680	Granted
38640	38640-US-PAT	12/984701	2012/0170177	8760294	Granted
38653	38653-US-PAT	13/033819	2012/0220220		Abandoned
38655	38655-US-CNT	13/244735	2012/0033649	8582521	Granted
38655	38655-US-PCD	13/458763	20120213194	8565148	Granted
38658	38658-US-PAT	12/982090	2012/0168294	9029723	Granted
38667	38667-US-CNT	15/183414	2016/0295446	10129783	Granted
38667	38667-US-PAT	12/780680	2011/0281583	9414269	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
38668	38668-US-PAT	13/070261	2012/0246294		Abandoned
38670	38670-US-PAT	13/166110	2012/0326982	8547333	Granted
38680	38680-US-PAT	13/032385	2012/0214551		Abandoned
38682	38682-US-PAT	13/046351	2012/0230507	8559651	Granted
38716	38716-US-PAT	13/036885	2012/0218078	8803659	Granted
38721	38721-US-PAT	13/011118	2012/0188991	8693451	Granted
38730	38730-US-CNT	14/542303	2015/0061849	9767658	Granted
38730	38730-US-PAT	12/884522	2012/0071092	8914075	Granted
38731	38731-US-PAT	13/030522	2012/0213339		Abandoned
38736	38736-US-PAT	13/024626	2012/0207296		Abandoned
38742	38742-US-PAT	13/036874	2012/0218075		Abandoned
38751	38751-US-PAT	13/239485	2013/0078930	8699963	Granted
38754-1	38754-1-US-PAT	12/903450	2012/0091030	8561797	Granted
38774	38774-US-CIP	10/902961		7415122	Expired
38774	38774-US-DIV	12/124773	2008/0226110	7945063	Expired
38774	38774-US-PAT	09/579119		6771788	Expired
38777	38777-US-CIP	11/336385	2006/0206449	7440980	Expired
38777	38777-US-CIP[2]	11/336421	2006/0282440	7433900	Expired
38777	38777-US-CNT	11/436965	2006/0206450	7461098	Expired
38777	38777-US-PAT	09/824252	2002/0143795	7047257	Granted
38780	38780-US-CIP	10/688802	2004/0167777	7895036	Granted
38780	38780-US-CIP[2]	11/607340	2007/0078649	8271279	Granted
38780	38780-US-CNT	12/902503	2011/0026734	8165875	Granted
38780	38780-US-CNT[2]	13/013358	2011/0123044	9373340	Granted
38780	38780-US-CNT[3]	13/601314	2012/0321095	8612222	Granted
38780	38780-US-CNT[4]	15/177807	2016/0343385	9916841	Granted
38780	38780-US-PAT	10/410736	2004/0165736	7885420	Granted
38780	38780-US-PRV	60/449511			Converted
38782	38782-US-CIP	11/252160	2006/0100868	7725315	Granted
38783	38783-US-CIP	11/006935	2005/0114128	7949522	Granted
38783	38783-US-CNT	13/111274	2011/0282660	8374855	Granted
38784	38784-US-CIP	11/331806	2006/0116873	8073689	Granted
38784	38784-US-CNT	13/307615	2012/0076315	8326621	Granted
38787	38787-US-CNT	12/940162	2011/0050688	8098246	Granted
38787	38787-US-CNT[2]	13/326008	2012/0256930	8416235	Granted
38787	38787-US-CNT[3]	13/858506	2013/0222362	8648852	Granted
38787	38787-US-CNT[4]	14/166616	2014/0143711	9274677	Granted
38787	38787-US-PAT	10/928698	2006/0048164	7830372	Granted
38792	38792-US-PAT	11/110556	2006/0247922	7813931	Granted
38797	38797-US-PAT	11/145105	2006/0182137	7549151	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
38797	38797-US-PRV	60/652929			Converted
38799	38799-US-CNT	12/911506	2011/0035502	8078716	Granted
38799	38799-US-CNT[2]	13/292701	2012/0179777	8386586	Granted
38799	38799-US-PAT	11/145293	2006/0277285	7840682	Granted
38799-1	38799-1-US-PAT	11/144327	2006/0277284	8667184	Granted
38800	38800-US-PAT	11/145373	2006/0277400	7461247	Granted
38801	38801-US-CIP	11/317468	2007/0226739	8434086	Granted
38801	38801-US-CIP[2]	12/039678	2008/0196031	8245230	Granted
38801	38801-US-CIP[3]	12/098972	2008/0235701	8631409	Granted
38801	38801-US-CNT[2]	12/978083	2011/0107342	8595733	Granted
38801	38801-US-CNT[3]	13/776465	2014/0245311	9361156	Granted
38801	38801-US-CNT[4]	13/872885	2013/0247066	9424093	Granted
38801	38801-US-DIV	11/371638	2006/0206881	7840966	Granted
38801	38801-US-DIV[2]	11/371634	2007/0061788	7870554	Granted
38801	38801-US-DIV[3]	11/371639	2007/0061809	8544013	Granted
38801	38801-US-PAT	11/216795	2006/0206887	8387052	Granted
38801	38801-US-PRV	60/662070			Converted
38802	38802-US-PAT	11/385253	2006/0282654	7590839	Granted
38802	38802-US-PRV	60/664424			Converted
38808	38808-US-CNT	12/957999	2011/0072061	8051114	Granted
38808	38808-US-CNT[2]	13/221502	2011/0313983	8667029	Granted
38808	38808-US-PAT	11/173798	2007/0005560	7970803	Granted
38809	38809-US-CNT	12/955524	2011/0072060	8412752	Granted
38809	38809-US-PAT	11/450141	2007/0005627	7873683	Granted
38809	38809-US-PRV	60/695941			Converted
38810	38810-US-PAT	11/450140	2007/0005894	7698495	Granted
38810	38810-US-PRV	60/696494			Converted
38811	38811-US-PAT	11/477824	2007/0113120	7707480	Granted
38811	38811-US-PRV	60/695493			Converted
38812	38812-US-PAT	11/173808	2007/0005614	7809777	Granted
38815	38815-US-CIP	11/298053	2006/0241938	8086451	Granted
38815	38815-US-CNT	13/336149	2012/0095759	8219389	Granted
38821	38821-US-PAT	11/510174	2008/0052329	7599972	Granted
38821	38821-US-REX	90/011299			Re-Examination Certificate Issued
38822	38822-US-PAT	11/418481	2007/0260867	7624260	Granted
38823	38823-US-PAT	11/765258	2008/0059510		Abandoned
38823	38823-US-PRV	60/841659			Converted
38826	38826-US-CNT[2]	12/948121	2011/0066430	8078461	Granted
38826	38826-US-CNT[3]	13/315636	2012/0078620	8260612	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
38826	38826-US-CNT[4]	13/584076	2012/0303367	8374861	Granted
38826	38826-US-PAT	11/644414	2007/0265843	7844453	Granted
38826	38826-US-PRV	60/800221			Expired
38827	38827-US-CNT	12/960197	2011/0078219	7987190	Granted
38827	38827-US-CNT[2]	13/158108	2011/0246477	8122178	Granted
38827	38827-US-PAT	11/717583	2008/0228843	7908276	Granted
38827	38827-US-PRV	60/840554			Converted
38828	38828-US-PAT	11/717601	2008/0052323	8566503	Granted
38828	38828-US-PRV	60/841804			Converted
38830	38830-US-CIP	11/645079	2007/0174050	8249861	Granted
38833	38833-US-PAT	11/947386	2008/0147739	8510301	Granted
38833	38833-US-PRV	60/875222			Converted
38840	38840-US-CNT	13/051725	2011/0231195	8200499	Granted
38840	38840-US-PAT	11/809952	2008/0208572	7912729	Granted
38840	38840-US-PRV	60/903079			Converted
38843	38843-US-PAT	11/776967	2009/0019253	7783859	Granted
38844	38844-US-PAT	11/779853	2009/0024824	7779214	Granted
38845	38845-US-PAT	11/776970	2009/0019254	7793070	Granted
38846	38846-US-PAT	12/025480	2009/0070769	8904400	Granted
38846	38846-US-PRV	60/971467			Converted
38846-1	38846-1-US-DIV	14/449955	2014/0344547	9122575	Granted
38846-1	38846-1-US-PAT	12/207189	2009/0125700	8850154	Granted
38846-1	38846-1-US-PRV	60/971452			Converted
38850	38850-US-PAT	11/584474	2007/0130589	8081955	Granted
38850	38850-US-PRV	60/729066			Converted
38852	38852-US-CIP	12/126682	2009/0112579	8606566	Granted
38852	38852-US-CNT	13/217817	2012/0035921	8326616	Granted
38852	38852-US-PAT	11/923358	2009/0112584	8015002	Granted
38854	38854-US-PAT	12/039674	2009/0102806	8334847	Granted
38854	38854-US-PRV	60/981464			Converted
38855	38855-US-PAT	12/036909	2009/0102861	8169449	Granted
38855	38855-US-PRV	60/981324			Converted
38856	38856-US-PAT	12/260701	2009/0195556	8330774	Granted
38856	38856-US-PRV	60/985047			Converted
38857	38857-US-PAT	12/039676	2009/0115736	8497842	Granted
38857	38857-US-PRV	60/985053			Converted
38858	38858-US-PAT	12/056618	2009/0076824	8694310	Granted
38858	38858-US-PRV	60/973131			Converted
38861	38861-US-CNT	13/331753	2012/0114129	8494179	Granted
38861	38861-US-CNT[2]	13/924139	2013/0279718	9424860	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
38861	38861-US-PAT	12/264791	2009/0116661	8121311	Granted
38861	38861-US-PRV	60/985557			Converted
38862	38862-US-CNT	13/901741	2013/0257482	9225318	Granted
38862	38862-US-PAT	12/696533	2010/0198603	8457976	Granted
38862	38862-US-PRV	61/148661			Converted
38863	38863-US-CNT	13/676856	2013/0073285	8554557	Granted
38863	38863-US-PAT	12/428811	2009/0276213	8326620	Granted
38863	38863-US-PRV	61/125949			Converted
38865	38865-US-PAT	12/424856	2009/0265486	8799538	Granted
38865	38865-US-PRV	61/045893			Converted
38867	38867-US-PAT	12/425905	2009/0235044	8209514	Granted
38867	38867-US-PRV	61/046267			Converted
38871	38871-US-CIP	12/471093	2009/0287482	8335685	Granted
38871	38871-US-CNT	13/676821	2013/0070931	9123352	Granted
38871	38871-US-PRV	61/055913			Converted
38872	38872-US-CNT	13/676463	2013/0080158	8930186	Granted
38872	38872-US-PAT	12/454841	2009/0292536	8326617	Granted
38872	38872-US-PRV	61/055949			Converted
38873	38873-US-PAT	12/731763	2010/0253693	8976187	Granted
38873	38873-US-PRV	61/165743			Converted
38877	38877-US-CNT	11/515675	2007/0130567	7996843	Expired
38877	38877-US-CNT[2]	13/198461	2011/0289511	8572626	Expired
38877	38877-US-PAT	09/383115		7103631	Expired
38880	38880-US-CNT	11/136829	2005/0222842	7231347	Expired
38880	38880-US-PAT	09/375309		6910011	Expired
38882	38882-US-PAT	09/434781		6243322	Expired
38885	38885-US-CNT	14/687727	2015/0222722	10135938	Granted
38885	38885-US-PAT	12/780400	2011/0282921	9026567	Granted
38892	38892-US-CNT	13/444182	2012/0197639	8438022	Granted
38892	38892-US-PAT	12/070798	2009/0216530	8180634	Granted
38895	38895-US-PAT	13/309099	2012/0140957	8958573	Granted
38895	38895-US-PRV	61/418787			Converted
38896	38896-US-PAT	13/178903	2013/0009858	8665212	Granted
38897	38897-US-PAT	12/974376	2012/0117499	8881057	Granted
38897	38897-US-PRV	61/411739			Converted
38912	38912-US-CNT	14/305698	2014/0295830	9386398	Granted
38912	38912-US-PAT	12/905303	2011/0294502	8804517	Granted
38912	38912-US-PRV	61/349982			Converted
38921	38921-US-PAT	13/241615	2013/0079026	8718549	Granted
38923	38923-US-CNT	13/932547	2013/0295846	8750795	Granted

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38923	38923-US-PAT	13/074398	2012/0252480	8509808	Granted
38925	38925-US-CNT	13/451125	2012/0275312	9154929	Granted
38927	38927-US-PAT	13/187802	2013/0021263	8994670	Granted
38929	38929-US-PAT	13/249849	2013/0084846	9143910	Granted
38931	38931-US-PAT	13/005371	2012/0177157	9059721	Granted
38936	38936-US-CNT	14/202498	2014/0194148		Abandoned
38936	38936-US-PAT	12/857732	2012/0046862	8670935	Granted
38937	38937-US-PAT	12/977394	2012/0166074	9429438	Granted
38950	38950-US-DIV	14/056250			Abandoned
38950	38950-US-PAT	13/023865	2012/0201413	8588454	Granted
38970	38970-US-CNT	14/589384	2015/0113598	9414234	Granted
38970	38970-US-PAT	13/034059	2012/0220216	8929861	Granted
38971	38971-US-PAT	13/183799	2013/0019269	8850492	Granted
38979	38979-US-PAT	13/082701	2012/0259717	8740064	Granted
38981	38981-US-CNT	14/476493	2014/0368457	9170672	Granted
38981	38981-US-PAT	12/837845	2012/0013543	8854316	Granted
38982	38982-US-PAT	12/837775	2012/0013542		Abandoned
38987	38987-US-PAT	13/108359	2012/0295458	8616920	Granted
38989	38989-US-PAT	13/093088	2012/0267227	8921720	Granted
38991	38991-US-PAT	13/046979	2012/0236733	8611242	Granted
38997	38997-US-PAT	13/092261	2012/0267206	8934948	Granted
39016	39016-US-PAT	13/036775	2012/0218089	8710966	Granted
39017	39017-US-CNT	13/795826	2013/0189969	9049746	Granted
39028	39028-US-PAT	13/107148	2012/0287056	8773374	Granted
39029	39029-US-PAT	13/111761	2012/0296984	8909717	Granted
39037	39037-US-PAT	13/112119	2012/0293923	8540062	Granted
39038	39038-US-CNT	14/252527	2014/0230029	9246900	Granted
39038	39038-US-PAT	13/370764	2013/0046972	8701169	Granted
39052	39052-US-PAT	13/075415	2012/0250609	9351235	Granted
39053	39053-US-CIP	15/065509	2016/0191683	10063678	Granted
39053	39053-US-CNT	14/100909	2014/0099993	9621694	Granted
39053	39053-US-PAT	13/005311	2012/0021701	8615279	Granted
39053	39053-US-PRV	61/367113			Converted
39053-1	39053-1-US-CIP	13/099025	2012/0019418	8774880	Granted
39053-1	39053-1-US-CNT	14/260363	2014/0232604	9293807	Granted
39059	39059-US-PAT	13/234194	2013/0072154	8820626	Granted
39059-1	39059-1-US-PAT	13/234216	2013/0069661	8829911	Granted
39059-2	39059-2-US-CNT	14/486574	2015/0002162	9581651	Granted
39059-2	39059-2-US-PAT	13/234191	2013/0069658	8860420	Granted
39063	39063-US-PAT	12/985209	2012/0169327		Abandoned

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39068	39068-US-PCT	13/581836	2012/0320783	9294310	Granted
39071	39071-US-PAT	12/872944	2012/0054844	8607316	Granted
39073	39073-US-PAT	13/177863	2013/0013679	8903908	Granted
39080	39080-US-CNT	13/767137	2013/0227060	9680896	Granted
39080	39080-US-CNT[2]	15/590806	2017/0244773	10616300	Granted
39092	39092-US-CNT	13/927501	2013/0285860	8648751	Granted
39092	39092-US-PAT	13/005326	2012/0019421	8497806	Granted
39092	39092-US-PRV	61/367083			Converted
39093	39093-US-PAT	13/157788	2012/0314421	8596805	Granted
39096	39096-US-PAT	13/269346	2013/0088410		Abandoned
39103	39103-US-PAT	12/970169	2012/0013784	8493495	Granted
39103	39103-US-PRV	61/365116			Converted
39112	39112-US-CNT	13/766037	2013/0156413	8731391	Granted
39112	39112-US-PAT	12/971571	2012/0155846	8391702	Granted
39125	39125-US-PAT	13/442452	2013/0267181	9083074	Granted
39132	39132-US-PAT	13/097725	2012/0274485		Abandoned
39134	39134-US-CNT	15/205581	2017/0013586	9763218	Granted
39134	39134-US-CNT[2]	15/700806	2018/0098302	10477507	Granted
39134	39134-US-CNT[3]	16/596024	2020/0037284	11153841	Granted
39134	39134-US-PAT	13/193979	2013/0028245	9420396	Granted
39135	39135-US-PAT	13/026968	2012/0210113	9117083	Granted
39138	39138-US-PAT	13/176897	2012/0011362	8990564	Granted
39138	39138-US-PRV	61/362604			Converted
39140	39140-US-PAT	13/204838	2013/0038627	9026946	Granted
39144	39144-US-CNT	13/869278	2013/0237295	8761847	Granted
39144	39144-US-PAT	13/114476	2012/0302298	8457699	Granted
39160	39160-US-PCT	13/988312	2013/0231155	9479130	Granted
39166	39166-US-PCT	13/822407	2013/0166760	9692631	Granted
39182	39182-US-PAT	12/940660	2012/0016976	8489725	Granted
39182	39182-US-PRV	61/364883			Converted
39192	39192-US-CNT	13/971140		8773359	Granted
39192	39192-US-CNT[2]	14/303825	2014/0306896	9274613	Granted
39192	39192-US-PAT	13/178831	2013/0009877	8514180	Granted
39206	39206-US-PAT	13/183947	2012/0042362	8726354	Granted
39206	39206-US-PRV	61/364914			Converted
39212	39212-US-CNT	14/524292		9411486	Granted
39212	39212-US-PAT	13/044639	2012/0229491	8881042	Granted
39216	39216-US-CNT	14/171659	2014/0211928	9380156	Granted
39216	39216-US-PAT	13/156469	2012/0314849	8681963	Granted
39221	39221-US-PAT	13/087533	2012/0265432	8798909	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
39224	39224-US-PCT	13/880412	2013/0217450	8954121	Granted
39225	39225-US-PAT	13/039070	2012/0226842		Abandoned
39226	39226-US-CNT	14/311488	2014/0300498	9292100	Granted
39226	39226-US-PAT	12/884850	2012/0068932	8760404	Granted
39234-1	39234-1-US-PCT	13/696218	2014/0024386	9072106	Granted
39234-2	39234-2-US-PCT	13/696224	2014/0010169	9048983	Granted
39235	39235-US-CNT	13/961477	2013/0321266	8749651	Granted
39235	39235-US-PAT	13/030001	2012/0212629	8531536	Granted
39249	39249-US-CNT	14/196848	2014/0187294	9225339	Granted
39249	39249-US-PAT	13/197244	2013/0033800	8710938	Granted
39250	39250-US-PAT	13/344900	2013/0178198	9413867	Abandoned
39271	39271-US-CNT	14/030393	2014/0020091	8953845	Granted
39271	39271-US-PAT	13/052226	2012/0243729	8625847	Granted
39280	39280-US-PAT	13/235015	2013/0072164	10484536	Granted
39282	39282-US-PAT	13/198947	2013/0033844	8811032	Granted
39283	39283-US-PAT	13/211670	2013/0047104	9465506	Granted
39291	39291-US-PAT	13/339976	2013/0169219	9417677	Granted
39297	39297-US-CNT	14/979906	2016/0150005	9781199	Granted
39297	39297-US-PAT	13/400755	2012/0215851	9231786	Granted
39304	39304-US-PAT	13/079484	2012/0250540	8693458	Granted
39311	39311-US-PAT	13/227885	2013/0064327	8848833	Granted
39312	39312-US-PAT	13/157442	2012/0313908	9280184	Granted
39323	39323-US-CNT	14/498522	2015/0009982	9241344	Granted
39323	39323-US-DIV	14/921765	2016/0044465	9451634	Granted
39323	39323-US-PAT	13/021331	2012/0044915	8848679	Granted
39323	39323-US-PRV	61/375156			Converted
39326	39326-US-PCT	13/635158	2013/0007177	9083669	Granted
39326	39326-US-PRV	61/381733			Converted
39330	39330-US-PAT	13/036248	2012/0219053	8873618	Granted
39331	39331-US-CNT	14/750633	2015/0296555	9635695	Granted
39331	39331-US-CNT[2]	15/495176	2017/0325272	10278222	Granted
39331	39331-US-PCT	13/643241	2014/0051357	9084235	Granted
39333	39333-US-PAT	13/187881	2013/0021763	9162303	Abandoned
39345	39345-US-PAT	13/307648	2013/0135203	9442517	Granted
39347	39347-US-PAT	13/172466	2013/0002441	9065922	Granted
39358	39358-US-PAT	13/035131	2012/0218452	8937675	Granted
39361	39361-US-PAT	13/074431	2012/0254505	9311229	Granted
39381	39381-US-PAT	13/157537	2012/0317204	8930514	Granted
39383	39383-US-PAT	13/193125	2012/0026020	8378862	Granted
39383	39383-US-PRV	61/368474			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
39384	39384-US-PAT	13/444010	2013/0273871	8600331	Granted
39393	39393-US-PAT	13/225783	2013/0058388	8594579	Granted
39415	39415-US-PAT	13/225762	2013/0058387	8792831	Granted
39418	39418-US-PAT	13/253170	2013/0088303	8766729	Granted
39422	39422-US-PCT	14/118038			Abandoned
39424	39424-US-CNT	13/611392	2013/0003588	9014033	Granted
39424-1	39424-1-US-CNT	13/611437	2013/0003589	9048969	Granted
39424-2	39424-2-US-CNT	13/611474	2013/0003590	9055542	Granted
39442	39442-US-PCT	13/813287	2013/0336209	9025531	Granted
39446	39446-US-DIV	14/327611	2014/0320732	9060131	Granted
39446	39446-US-PAT	13/032436	2012/0086847	8823856	Granted
39446	39446-US-PRV	61/392313			Converted
39449	39449-US-PAT	13/248602	2012/0082263	8665993	Abandoned
39449	39449-US-PRV	61/388982			Converted
39449	39449-US-PRV[2]	61/443525			Converted
39449	39449-US-PRV[3]	61/511299			Converted
39452	39452-US-PCT	14/232339	2014/0132478	9748668	Granted
39452-1	39452-1-US-PCT	14/232372	2014/0170992	9136595	Granted
39456	39456-US-PAT	13/251848	2013/0085705		Abandoned
39461	39461-US-PAT	13/251799	2013/0082918		Abandoned
39464	39464-US-PAT	13/251833	2013/0082919		Abandoned
39478	39478-US-PAT	13/354410	2013/0189967	8755780	Granted
39483	39483-US-PAT	13/030348	2012/0215854	8635291	Granted
39485	39485-US-PAT	12/892389	2012/0075398		Abandoned
39488	39488-US-PAT	13/273693	2013/0092838	8859971	Granted
39492	39492-US-PAT	13/232057	2012/0063691	8577159	Granted
39492	39492-US-PRV	61/382523			Converted
39493	39493-US-PAT	12/987458	2012/0177428	8662769	Granted
39495	39495-US-PAT	13/031773	2012/0075175	9413624	Granted
39495	39495-US-PRV	61/387513			Converted
39497	39497-US-PAT	13/246477	2012/0076077	8797954	Granted
39497	39497-US-PRV	61/387265			Converted
39501	39501-US-CNT	13/798548	2014/0098900	8811552	Granted
39510	39510-US-PCT	13/583571	2013/0151954	9218320	Granted
39515	39515-US-CNT	14/020589	2014/0004847	9161245	Granted
39515	39515-US-PAT	12/856344	2012/0039189	8553563	Granted
39515-1	39515-1-US-PAT	12/856355	2012/0039365	8391887	Granted
39517	39517-US-PAT	13/050306	2012/0238209	9020431	Granted
39521	39521-US-CNT[2]	15/051407	2016/0174126	9794850	Granted
39521	39521-US-PCT	13/985764	2014/0247810	9622138	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
39521	39521-US-PCT[2]	13/985774	2014/0233408	9301184	Granted
39521	39521-US-PRV	61/443389			Converted
39523	39523-US-PAT	13/205266	2012/0079007	9160693	Granted
39523	39523-US-PRV	61/386635			Converted
39524	39524-US-CNT	14/867517	2016/0021119	9531731	Granted
39524	39524-US-PAT	13/098456	2012/0079609	9147085	Granted
39524	39524-US-PRV	61/386270			Converted
39525	39525-US-CNT	14/070960	2014/0068741	9059984	Granted
39525	39525-US-PAT	13/243683	2012/0079582	8578461	Granted
39525	39525-US-PRV	61/386689			Converted
39529	39529-US-PAT	13/034796	2012/0079123	9021108	Granted
39529	39529-US-PRV	61/386716			Converted
39530	39530-US-PAT	13/075322	2012/0079005	8606850	Granted
39530	39530-US-PRV	61/386631			Converted
39534	39534-US-PCT	14/127570	2014/0125538	9478863	Granted
39550	39550-US-PAT	13/273795	2013/0099725	8786251	Granted
39571	39571-US-PAT	12/862520	2012/0051223	8477743	Granted
39577	39577-US-PCT	13/822944	2013/0170644	9143319	Granted
39577	39577-US-PRV	61/383993			Converted
39579	39579-US-PAT	13/037002	2012/0077433	9961182	Granted
39579	39579-US-PRV	61/385734			Converted
39585	39585-US-PAT	13/156926	2012/0316782	9207096	Granted
39588	39588-US-PCT	13/823189	2013/0171978	9288666	Granted
39588	39588-US-PRV	61/386174			Converted
39593	39593-US-PAT	13/087582	2012/0262870	8958201	Granted
39601	39601-US-PAT	13/115743	2012/0299864	8736564	Granted
39604	39604-US-PAT	12/969645	2012/0159593	8661530	Granted
39605	39605-US-PAT	12/969643	2012/0159615	8769641	Granted
39606	39606-US-PAT	12/969640	2012/0159592	9258123	Granted
39607	39607-US-PAT	12/969638	2012/0159614	8631487	Granted
39608	39608-US-PAT	12/969637	2012/0159613	8931083	Granted
39609	39609-US-CNT	14/505545	2015/0033329	10621328	Granted
39609	39609-US-PAT	12/969633	2012/0159608	8863271	Granted
39610	39610-US-PAT	12/969629	2012/0159609	9135426	Granted
39620	39620-US-PAT	13/187961	2013/0022099	9451271	Granted
39629	39629-US-PCT	13/822661	2014/0348253	9331765	Granted
39632	39632-US-PAT	13/252330	2013/0082656	8922158	Abandoned
39636	39636-US-CNT	13/754497	2013/0144740	9747594	Granted
39636	39636-US-CNT[2]	14/932454	2016/0055471	9818096	Granted
39636	39636-US-CNT[3]	15/809463	2018/0075431	10614439	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
39636	39636-US-PAT	13/050375	2012/0239514	8392259	Granted
39649	39649-US-PAT	13/227968	2013/0065543	9263788	Granted
39652	39652-US-PAT	12/883009	2012/0064891	9026132	Granted
39666	39666-US-PAT	12/966819	2012/0146911	9285836	Granted
39677	39677-US-CNT	15/194082	2016/0309287	10028078	Granted
39677	39677-US-PCT	13/885633	2014/0035727	9390298	Granted
39679	39679-US-PAT	13/081712	2012/0258759	8571595	Granted
39691	39691-US-PAT	13/246983	2012/0260097	8578169	Granted
39691	39691-US-PRV	61/417541			Converted
39697	39697-US-PAT	13/217481	2013/0053009	8831579	Granted
39709	39709-US-PAT	13/204442	2012/0079006	9021016	Granted
39709	39709-US-PRV	61/386781			Converted
39726	39726-US-PAT	13/227659	2012/0147789	9252830	Granted
39726	39726-US-PRV	61/421991			Converted
39736	39736-US-CNT	16/272762	2019/0174404	10959168	Granted
39736	39736-US-PCT	13/822695	2013/0288673	10206164	Granted
39738	39738-US-PAT	13/228604	2012/0110097	8838710	Granted
39738	39738-US-PRV	61/408232			Converted
39739	39739-US-CNT	14/287157	2014/0258722	9225524	Granted
39739	39739-US-PAT	13/281834	2012/0278620	8738909	Granted
39739	39739-US-PRV	61/408240			Converted
39740	39740-US-PAT	13/296514	2012/0131346	9166794	Granted
39740	39740-US-PRV	61/413970			Converted
39741	39741-US-PAT	13/296501	2012/0140927	9479928	Granted
39741	39741-US-PRV	61/413941			Converted
39742	39742-US-PAT	13/298704	2012/0128156	8983070	Granted
39742	39742-US-PRV	61/415103			Converted
39743	39743-US-CNT	14/023651	2014/0013121	9391780	Granted
39743	39743-US-PAT	12/956047	2012/0137121	8566577	Granted
39744	39744-US-PAT	13/297454	2012/0233252	8719579	Granted
39744	39744-US-PRV	61/414207			Converted
39747-2	39747-2-US-PAT	13/667780	2014/0126121	9013864	Granted
39748	39748-US-PAT	13/079547	2012/0252424	8630632	Granted
39765	39765-US-PAT	13/230882	2013/0066815		Abandoned
39768	39768-US-PAT	13/083981	2012/0260329	8793780	Granted
39779	39779-US-PAT	13/312734	2013/0142558	9122315	Granted
39808	39808-US-CNT	13/731226	2013/0116006	8730845	Granted
39808	39808-US-PAT	13/027029	2012/0069772	8358596	Granted
39808	39808-US-PRV	61/384573			Converted
39824	39824-US-PAT	12/977216	2012/0165072	8532721	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
39825	39825-US-PAT	12/977242	2012/0162263	8723890	Granted
39826	39826-US-PAT	12/977283	2012/0165073	8514179	Granted
39832	39832-US-PAT	13/243801	2012/0079423	8959451	Granted
39832	39832-US-PRV	61/386303			Converted
39833	39833-US-CNT	14/727357	2015/0339469	9519765	Granted
39833	39833-US-CNT[2]	15/193614	2016/0306987	10318764	Granted
39833	39833-US-PAT	13/242451	2012/0079586	9047451	Granted
39833	39833-US-PAT[2]	13/242589	2012/0079110	9378394	Granted
39833	39833-US-PRV	61/386245			Converted
39842	39842-US-PAT	13/299853	2012/0131137	9049248	Granted
39842	39842-US-PRV	61/415606			Converted
39855	39855-US-PAT	13/206870	2013/0036846	8769772	Granted
39865	39865-US-PCT	13/822528	2014/0219373	8929493	Granted
39866	39866-US-PCT	14/236229	2015/0131751	9214995	Granted
39867	39867-US-PAT	13/221015	2013/0050233	9513724	Granted
39870	39870-US-PAT	13/174861	2013/0007482	8762751	Granted
39876	39876-US-PAT	13/240250	2012/0131501	9684444	Granted
39876	39876-US-PRV	61/386302			Converted
39896	39896-US-PAT	13/180293	2013/0018628	8965731	Granted
39904	39904-US-PAT	13/235730	2012/0098525		Abandoned
39904	39904-US-PRV	61/406829			Converted
39907	39907-US-PAT	13/235761	2012/0101766		Abandoned
39907	39907-US-PRV	61/406810			Converted
39908	39908-US-PAT	13/235824	2012/0096921	8922198	Granted
39908	39908-US-PRV	61/406879			Converted
39912	39912-US-PAT	13/365281	2013/0200882	9146285	Granted
39920	39920-US-PAT	13/207193	2013/0040609	9014344	Granted
39920-1	39920-1-US-CIP	13/328560	2013/0040613	8605871	Granted
39921	39921-US-PAT	13/223652	2013/0058471	9014358	Granted
39922	39922-US-PAT	13/418153	2013/0238723	9292829	Granted
39924	39924-US-CNT	17/354937	2021/0318758		Publication of Application
39924	39924-US-PAT	13/215481	2012/0154303		Abandoned
39924	39924-US-PRV	61/386147			Converted
39945	39945-US-PAT	13/110075	2012/0292169	9114982	Granted
39951	39951-US-PAT	13/092268	2012/0268667	8823898	Granted
39952	39952-US-PAT	13/339988	2013/0169545		Abandoned
39961	39961-US-PCT	13/984617	2014/0044108	9820244	Granted
39972	39972-US-CNT	15/587304	2017/0237889	10547793	Granted
39972	39972-US-PAT	13/425264	2012/0262571	9681058	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
39972	39972-US-PRV	61/474544			Converted
39985	39985-US-PAT	13/041019	2012/0226802	9503223	Granted
39987	39987-US-PAT	13/276980	2013/0100601	8711554	Granted
39988	39988-US-CNT	12/900627	2011/0019737	8331441	Granted
39988	39988-US-CNT[2]	13/244751	2012/0014435	8411742	Granted
39988	39988-US-CNT[3]	13/776858	2014/0010288	9179147	Granted
39988	39988-US-PAT	11/377583	2007/0217506	8005140	Granted
39989	39989-US-PAT	13/336109	2013/0163866	8687882	Granted
39991	39991-US-PAT	13/366443	2012/0200734	8717464	Granted
39991	39991-US-PRV	61/441052			Converted
39994	39994-US-PAT	13/413454	2012/0262601		Abandoned
39994	39994-US-PRV	61/450406			Converted
40005	40005-US-PAT	13/296963	2012/0131116		Abandoned
40005	40005-US-PRV	61/413931			Converted
40006	40006-US-PAT	13/224863	2012/0110345	9071580	Granted
40006	40006-US-PRV	61/408882			Converted
40008	40008-US-PAT	13/085685	2012/0110675	8904544	Granted
40008	40008-US-PRV	61/408992			Converted
40009	40009-US-PAT	13/218562	2012/0206129	8952682	Granted
40009	40009-US-PRV	61/441883			Converted
40015	40015-US-PAT	13/178337	2012/0140108	8947584	Granted
40015	40015-US-PRV	61/418494			Converted
40017	40017-US-CNT	13/956741	2013/0315316	8970407	Granted
40017	40017-US-PAT	13/249707	2012/0081242	8519871	Granted
40017	40017-US-PRV	61/388768			Converted
40021	40021-US-CNT	13/790011	2013/0182791	9231677	Granted
40021	40021-US-PRV	61/390815			Converted
40025	40025-US-PAT	13/492004	2013/0142100		Abandoned
40030	40030-US-PAT	13/023276	2012/0203486	8676528	Granted
40042	40042-US-PAT	13/074450	2012/0254031	10223743	Granted
40045	40045-US-PAT	13/083034	2012/0257566	8942193	Granted
40048	40048-US-PAT	13/336771	2013/0163765	9167368	Granted
40059	40059-US-CNT	14/300613	2014/0289644	9667769	Granted
40059	40059-US-PAT	13/344359	2012/0231770	8761737	Granted
40059	40059-US-PRV	61/430460			Converted
40064	40064-US-CNT	13/734455	2013/0122825	8983394	Granted
40076	40076-US-PAT	13/326507	2013/0155253	9413939	Granted
40081	40081-US-PAT	12/984129	2012/0172061	8620582	Granted
40092	40092-US-PCT	13/583100	2013/0111317	9384293	Granted
40094	40094-US-CNT	14/095408	2014/0173126	9055133	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
40094	40094-US-PAT	13/216480	2013/0054824	8626940	Granted
40097	40097-US-PCT	14/114802	2014/0072119	9544766	Granted
40105	40105-US-CNT	13/556979	2012/0289293	8515422	Granted
40105	40105-US-CNT[2]	13/829154	2013/0203472	8818370	Granted
40105	40105-US-PAT	12/941845	2012/0100892		Abandoned
40106	40106-US-PAT	13/025399	2012/0206373	8810529	Granted
40118	40118-US-CNT	14/297994	2014/0289347	9979679	Granted
40118	40118-US-PAT	13/279899	2012/0136949	8762467	Granted
40118	40118-US-PRV	61/406386			Converted
40136	40136-US-PAT	13/279856	2013/0104184	8910236	Granted
40138	40138-US-PAT	13/268269	2013/0091429	8924853	Granted
40147	40147-US-PAT	13/354091	2013/0190015	8606300	Granted
40148	40148-US-PCT	13/823778	2013/0176981	9480048	Granted
40153	40153-US-CNT	14/452699	2014/0340844	9004334	Granted
40153	40153-US-PAT	13/249610	2012/0255977	8827129	Granted
40153	40153-US-PRV	61/435378			Converted
40154	40154-US-CNT	14/750544	2016/0174291	9867229	Granted
40154	40154-US-PAT	13/206695	2013/0039336	9072099	Granted
40157	40157-US-PCT	13/980262	2014/0024388	9281929	Granted
40163	40163-US-CNT	13/611545	2013/0005413		Abandoned
40163	40163-US-PAT	13/080333	2012/0258772	8326385	Granted
40173	40173-US-PAT	13/105315	2012/0102173	10194314	Granted
40173	40173-US-PRV	61/405795			Converted
40180	40180-US-CNT	14/333847	2014/0327804	9715340	Granted
40180	40180-US-CNT[2]	15/595077	2017/0249078	10466898	Granted
40180	40180-US-PAT	13/273465	2013/0093833	8819154	Granted
40205	40205-US-PAT	13/315758	2013/0152176	8701166	Granted
40206	40206-US-PAT	13/036611	2012/0217958	8896301	Granted
40207	40207-US-CNT	14/230677	2014/0214357	9157736	Granted
40207	40207-US-PAT	13/036563	2012/0221290	8688403	Granted
40228	40228-US-PAT	13/282825	2013/0110940	9665266	Granted
40236	40236-US-PAT	13/278239	2013/0102169	8408930	Abandoned
40243	40243-US-PAT	13/301238	2012/0198529	8615793	Granted
40243	40243-US-PAT[2]	14/073274	2015/0128233	9450953	Granted
40243	40243-US-PRV	61/438065			Converted
40275	40275-US-PAT	12/942007	2012/0113904	8755340	Granted
40275-1	40275-1-US-PAT	12/942013	2012/0113905	8743802	Granted
40275-2	40275-2-US-PAT	13/291913	2012/0127934	8902773	Granted
40275-2	40275-2-US-PRV	61/411471			Converted
40276	40276-US-PAT	12/946535	2012/0120815	8611240	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
40276-1	40276-1-US-PAT	12/946617	2012/0120843	8654691	Granted
40276-2	40276-2-US-PAT	13/297073	2012/0120828	8937876	Granted
40276-2	40276-2-US-PRV	61/413833			Converted
40281	40281-US-CNT	14/199498	2014/0187262	8903422	Granted
40281	40281-US-PAT	13/350904	2012/0225664	8706139	Granted
40281	40281-US-PRV	61/444988			Converted
40300	40300-US-PAT	13/178796	2013/0010934	8611506	Granted
40303	40303-US-PAT	13/246033	2012/0278347	9137443	Granted
40303	40303-US-PRV	61/479227			Converted
40319	40319-US-PAT	13/667866	2014/0125400	9209924	Granted
40325	40325-US-CNT	16/199738	2019/0095347	10496550	Granted
40325	40325-US-PAT	13/667895	2014/0129778	10140219	Granted
40331	40331-US-PAT	09/819551	2002/0140607	6466170	Expired
40341	40341-US-PAT	13/162447	2012/0322453	8611823	Granted
40343	40343-US-PAT	13/229261	2012/0291119	8949999	Granted
40343	40343-US-PRV	61/484484			Converted
40360	40360-US-CIP	13/398929	2013/0093465	8508250	Granted
40360	40360-US-CNT	13/927519	2013/0285703	9209808	Granted
40360	40360-US-PAT	13/272653			Abandoned
40386	40386-US-PAT	13/599745	2013/0231124	8977277	Granted
40394	40394-US-PAT	13/442418	2013/0265201	8970434	Granted
40404	40404-US-PAT	13/291153	2013/0117383	8688793	Granted
40430	40430-US-PAT	13/355283	2012/0189016	9271316	Granted
40430	40430-US-PRV	61/435047			Converted
40443	40443-US-CNT	14/477542	2015/0019646	9232003	Granted
40443	40443-US-PAT	13/344775	2012/0179829	8832251	Granted
40443	40443-US-PRV	61/430417			Converted
40453	40453-US-PAT	13/250830	2012/0309353	9154939	Granted
40453	40453-US-PRV	61/492252			Converted
40459	40459-US-CNT	14/339723	2015/0019857	9292314	Granted
40459	40459-US-PAT	13/336038	2013/0166899	8799634	Granted
40468	40468-US-PAT	13/252347	2013/0082940		Abandoned
40476	40476-US-PAT	13/237196	2012/0194130		Abandoned
40476	40476-US-PRV	61/436838			Converted
40484	40484-US-CNT	15/168477	2016/0277554		Abandoned
40484	40484-US-PAT	13/343577	2013/0169166	9363869	Granted
40494	40494-US-CNT	14/535515	2015/0063114	9277442	Granted
40494	40494-US-PAT	13/307601	2013/0136067	8885584	Granted
40495	40495-US-PAT	13/399005	2013/0218449	9279693	Granted
40496	40496-US-PAT	13/399021	2013/0218982	9299065	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
40509	40509-US-CNT	14/992824	2016/0191428	10243892	Granted
40509	40509-US-PAT	13/480416	2013/0316682	9237446	Granted
40519	40519-US-PAT	13/208521	2013/0040616	8588753	Granted
40531	40531-US-CNT	13/902233	2013/0260837	9301107	Granted
40531	40531-US-PAT	13/149238	2012/0309461	8478352	Granted
40532	40532-US-PAT	13/295404	2013/0125019		Appealed
40537	40537-US-PAT	13/344919	2012/0179767	10110548	Granted
40537	40537-US-PRV	61/430455			Converted
40542	40542-US-PAT	13/177942	2013/0013938	8909955	Granted
40554	40554-US-CNT	17/132747	2021/0117081		Publication of Application
40554	40554-US-PAT	13/370553	2012/0220372	10908812	Granted
40554	40554-US-PRV	61/442088			Converted
40560	40560-US-PAT	13/240719	2013/0078962	9553973	Granted
40561	40561-US-PAT	13/559252	2013/0028169	9287965	Granted
40561-1	40561-1-US-PAT	13/559436	2013/0029589	9253647	Granted
40573	40573-US-PAT	13/335616	2013/0166915	9166977	Granted
40575	40575-US-CNT	16/364584	2019/0220823	11107042	Granted
40575	40575-US-PAT	13/185635	2013/0024780		Abandoned
40576	40576-US-CNT	13/720719	2013/0110953	8978039	Granted
40576	40576-US-PAT	13/025822	2012/0210334	8375400	Granted
40592	40592-US-PAT	13/527993	2012/0324329	9477392	Granted
40592	40592-US-PRV	61/498747			Converted
40599	40599-US-CNT	13/555403	2013/0021998	9094438	Granted
40599	40599-US-CNT[2]	14/795011	2015/0319648	9961148	Granted
40599	40599-US-CNT[3]	15/948876	2018/0227371	10609153	Granted
40601	40601-US-PAT	13/049732	2012/0237044	8917883	Granted
40604	40604-US-CNT	14/272166	2014/0242958	9485355	Granted
40604	40604-US-PAT	13/397454	2013/0208877	8761365	Granted
40614	40614-US-PAT	13/416189	2013/0235719	9544806	Granted
40615	40615-US-PAT	13/208750	2013/0040631	8639236	Granted
40619	40619-US-PAT	13/415305	2013/0235849	9781643	Granted
40620	40620-US-PAT	13/229231	2013/0063314	8941550	Granted
40631	40631-US-PAT	13/279058	2013/0103399	8898054	Granted
40650	40650-US-PAT	13/208547	2013/0042277		Abandoned
40658	40658-US-PAT	13/334330	2012/0170647	9571849	Granted
40658	40658-US-PRV	61/429633			Converted
40658-1	40658-1-US-CNT	14/314792	2014/0307778	9219912	Granted
40658-1	40658-1-US-PAT	13/334345	2012/0170857	8768080	Granted
40658-1	40658-1-US-PRV	61/429631			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
40660	40660-US-PCT	13/984637	2018/0324693	10506512	Granted
40660-1	40660-1-US-PCT	13/984625	2013/0315092	9294994	Granted
40665	40665-US-PCT	13/822420	2014/0078976	9184892	Granted
40665-1	40665-1-US-PCT	13/822431		9232526	Granted
40681	40681-US-PAT	13/709363	2013/0227139	9232024	Granted
40681	40681-US-PRV	61/605097			Converted
40681-1	40681-1-US-DIV	14/332617	2014/0331052	9473474	Granted
40681-1	40681-1-US-PAT	13/709417	2013/0227292	8832444	Granted
40681-1	40681-1-US-PRV	61/605121			Converted
40695	40695-US-PCT	14/237398	2014/0173721	9778813	Granted
40699	40699-US-CNT	14/315877	2014/0307781	9282329	Granted
40699	40699-US-PAT	13/155616	2012/0219055	8780972	Granted
40699	40699-US-PRV	61/446528			Converted
40704	40704-US-CNT	14/107280	2014/0108801	9363272	Granted
40704	40704-US-CNT[2]	15/174831	2016/0285849	9729537	Granted
40704	40704-US-PAT	13/397348	2012/0214444	8644800	Granted
40704	40704-US-PRV	61/443168			Converted
40709	40709-US-PAT	13/334890	2013/0167209	8689299	Granted
40720	40720-US-CNT	14/225506	2014/0203910	9460592	Granted
40720	40720-US-PAT	13/214354	2012/0223822	8723656	Granted
40720	40720-US-PRV	61/449356			Converted
40730	40730-US-PCT	13/639042	2014/0169279	9100979	Granted
40732	40732-US-CNT	14/075482	2014/0089944	9170861	Granted
40732	40732-US-CNT[2]	14/922566	2016/0055040	9542245	Granted
40732	40732-US-PAT	12/985338	2012/0174121	8589950	Granted
40733	40733-US-CNT	13/857848	2013/0222244	10289222	Granted
40733	40733-US-PAT	12/985337	2012/0169593	8438473	Granted
40743	40743-US-PAT	13/486836	2013/0321646	9313344	Granted
40744	40744-US-CNT	13/570337	2012/0300242	8736860	Granted
40744	40744-US-CNT[2]	14/263702	2014/0233052	9159006	Granted
40744	40744-US-CNT[3]	14/880405	2016/0034236	9542144	Granted
40744	40744-US-PRV	61/471594			Converted
40745	40745-US-CNT	14/158059	2014/0135039	9100795	Granted
40745	40745-US-PAT	13/276414	2013/0103307	8666660	Granted
40759	40759-US-CNT	15/173988	2016/0286472	10064125	Granted
40759	40759-US-CNT[2]	16/056161	2018/0352503	10278122	Granted
40759	40759-US-PCT	13/636480	2014/0248862	9380642	Granted
40759-1	40759-1-US-PCT	13/636483	2014/0148152	9042882	Granted
40764	40764-US-PAT	13/088492	2012/0263316	8744094	Granted
40773	40773-US-PAT	13/026930	2012/0210104	8504753	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
40777	40777-US-PAT	13/309240	2013/0143534	8880124	Granted
40788	40788-US-PAT	13/469920	2012/0287135	8941662	Granted
40788	40788-US-PRV	61/485300			Converted
40798	40798-US-PAT	13/229268	2013/0063323	8830136	Granted
40803	40803-US-PCT	13/635134	2013/0189963	8897757	Granted
40808	40808-US-CNT	13/914143	2013/0272291	9992819	Granted
40815	40815-US-PAT	13/031561	2012/0213373	8588426	Granted
40825	40825-US-PCT	14/004676	2014/0016721	9083593	Granted
40826	40826-US-PAT	13/279028	2013/0101896	10446828	Granted
40827	40827-US-PAT	13/278969	2013/0101891	9142840	Granted
40836	40836-US-PAT	13/397067	2013/0208770	8903014	Granted
40836-1	40836-1-US-PAT	13/397101	2013/0208827	8908746	Granted
40839	40839-US-PAT	13/360091	2013/0195152	8792582	Granted
40840	40840-US-PAT	13/197166	2013/0035045	8750809	Granted
40848	40848-US-PAT	13/339138	2013/0113717		Abandoned
40859	40859-US-PCT	13/968059	2013/0336483	9356785	Granted
40860	40860-US-PAT	13/339146	2013/0113718	9588680	Granted
40860	40860-US-PRV	61/557873			Converted
40862	40862-US-PAT	13/251935	2013/0082853	8581760	Granted
40863	40863-US-CNT	13/768492	2013/0165067	8989690	Granted
40864	40864-US-CNT	14/091202	2014/0078092	9013435	Granted
40864	40864-US-PAT	13/027061	2012/0206375	8624858	Granted
40871	40871-US-PAT	13/087752	2012/0264426	8666399	Granted
40871-1	40871-1-US-PAT	13/087824	2012/0263155	8681759	Granted
40884	40884-US-PAT	13/343885	2012/0176977	8730895	Granted
40884	40884-US-PRV	61/430705			Converted
40912	40912-US-CNT	14/298285	2014/0286582	8908978	Granted
40912	40912-US-PAT	13/416538	2013/0236112	8750617	Granted
40932	40932-US-PAT	13/462975	2012/0284514	9137025	Granted
40933	40933-US-PAT	13/428605	2012/0242459	9294287	Granted
40933	40933-US-PRV	61/467504			Converted
40935	40935-US-CNT	14/083852	2014/0082367	9251325	Granted
40951	40951-US-PAT	13/334759	2013/0163947	8542975	Granted
40959	40959-US-PCT	13/985809	2014/0036869	9661543	Granted
40968	40968-US-PAT	13/739420	2013/0301746	8964871	Granted
40968	40968-US-PRV	61/646623			Converted
40979	40979-US-PAT	13/403104	2013/0225212	8965422	Granted
40983	40983-US-PAT	13/421383	2013/0241902	8953245	Granted
40987	40987-US-PAT	13/360879	2013/0196715	8831686	Granted
40995	40995-US-PAT	13/311013	2013/0141567	9706036	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
40996	40996-US-PCT	14/131067	2014/0137197	9615257	Granted
40996-1	40996-1-US-PCT	14/131129	2014/0141750	9654981	Granted
40997	40997-US-PCT	14/131245	2014/0155033	9326114	Granted
41000	41000-US-PAT	13/157685	2012/0238206		Abandoned
41007	41007-US-PAT	13/050003	2012/0239817	8572262	Granted
41008	41008-US-PAT	13/464312	2013/0295848	9066292	Granted
41014	41014-US-PAT	13/150501	2012/0306903	9483085	Granted
41017	41017-US-CNT	14/670248	2015/0199836	9292950	Granted
41017	41017-US-PAT	13/493513	2013/0328922	8994750	Granted
41018	41018-US-CNT	14/452938	2014/0348333	9437181	Granted
41018	41018-US-PAT	13/194120	2013/0030801	8818800	Granted
41020	41020-US-CNT	14/463944	2014/0354406	9245102	Granted
41020	41020-US-PAT	13/303344	2013/0127592	8836472	Granted
41022	41022-US-PAT	13/282273	2012/0314396	8955995	Granted
41022	41022-US-PRV	61/496363			Converted
41026	41026-US-PAT	13/097867	2012/0278343	9760894	Granted
41029	41029-US-CNT	14/460484	2014/0357184	9660746	Granted
41029	41029-US-PAT	13/345867	2013/0179072	8843316	Granted
41049	41049-US-PAT	13/103199	2012/0291120	8769668	Granted
41050	41050-US-CNT	14/218513	2014/0201535	8972738	Granted
41050	41050-US-PAT	13/070226	2012/0243680	8675869	Granted
41053	41053-US-PAT	13/287839	2013/0105290	8984737	Granted
41071	41071-US-PAT	13/427333	2013/0252583	9060273	Granted
41081	41081-US-PAT	13/069751	2012/0213116	8547867	Granted
41081	41081-US-PRV	61/444628			Converted
41081-1	41081-1-US-PAT	13/069828	2012/0214489	8831611	Granted
41081-1	41081-1-US-PRV	61/444672			Converted
41081-2	41081-2-US-CNT	14/297354	2014/0287771	9717075	Granted
41081-2	41081-2-US-CNT[2]	15/644416	2017/0311312	10200980	Granted
41081-2	41081-2-US-PAT	13/069912	2012/0213162	8805303	Granted
41081-2	41081-2-US-PRV	61/444657			Converted
41104	41104-US-CNT	13/874549	2013/0241752	9397694	Granted
41104	41104-US-CNT[2]	15/208717	2016/0322986	10103746	Granted
41104	41104-US-PAT	13/087462	2012/0262313	8446301	Granted
41105	41105-US-PAT	13/439924	2012/0280868	8933847	Granted
41105	41105-US-PRV	61/472289			Converted
41118	41118-US-PAT	13/370766	2013/0212185	8874671	Granted
41123	41123-US-PAT	13/568587	2013/0201966	9014171	Granted
41124	41124-US-PAT	13/423014	2012/0239777	9286602	Granted
41124	41124-US-PRV	61/454485			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
41124	41124-US-PRV[2]	61/454837			Converted
41130	41130-US-CNT	14/132728	2014/0109085	9112866	Granted
41130	41130-US-PAT	13/155217	2012/0317565	8650550	Granted
41131	41131-US-PAT	13/155116	2012/0317638	8763080	Granted
41138	41138-US-PAT	13/424476	2013/0254586	9026842	Granted
41147	41147-US-PAT	13/345109	2013/0178149	8948685	Granted
41168	41168-US-PAT	13/422140	2013/0242492	8941979	Granted
41171	41171-US-PAT	13/487366	2012/0311007	9128806	Granted
41177	41177-US-PAT	13/072004	2012/0242548	8698678	Granted
41177	41177-US-PRV	61/466802			Converted
41177	41177-US-PRV[2]	61/466823			Converted
41179	41179-US-PAT	13/456910	2013/0290435	9171291	Granted
41180	41180-US-PAT	13/456928	2013/0290436	9406049	Granted
41185	41185-US-PAT	13/372817	2013/0110662	9430787	Granted
41185	41185-US-PRV	61/442579			Converted
41186	41186-US-PAT	13/330750	2013/0154730	8618875	Granted
41187	41187-US-PAT	13/197392	2013/0033431	8743050	Granted
41187-1	41187-1-US-CIP	13/399032	2013/0033432	8970477	Granted
41217	41217-US-CNT	13/554509	2013/0023218	9219308	Granted
41218	41218-US-PCT	14/005214	2014/0002323	9722324	Granted
41218	41218-US-PRV	61/452723			Converted
41221	41221-US-PAT	13/466723	2013/0304884	8819247	Granted
41222	41222-US-PAT	13/273015	2013/0093682	8730174	Granted
41227	41227-US-PAT	13/197524	2013/0036450	8732798	Granted
41228	41228-US-PAT	13/158111	2012/0315845	8983373	Granted
41234	41234-US-PAT	13/416589	2013/0238681	9069634	Granted
41249	41249-US-CNT	14/049505	2014/0038575		Abandoned
41249	41249-US-PAT	13/285247	2013/0108033	8605881	Granted
41252	41252-US-PAT	13/228252	2013/0063361	8766937	Granted
41258	41258-US-CNT	13/427290	2012/0220287	8412250	Granted
41258	41258-US-CNT[2]	13/791219	2013/0195269	8903443	Granted
41258	41258-US-PAT	13/244740		8165618	Granted
41258	41258-US-PRV	61/446488			Converted
41267	41267-US-PAT	13/458591	2013/0039195	9025476	Granted
41267	41267-US-PRV	61/521929			Converted
41275	41275-US-CNT	13/329820	2012/0131449	8839098	Granted
41275	41275-US-PAT	09/516119			Abandoned
41275	41275-US-PCT	10/204757	2003/0023637	8122344	Granted
41276	41276-US-CIP	10/368011	2004/0024826	7856476	Granted
41276	41276-US-CNT	12/927089	2011/0078264	8156191	Expired

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
41276	41276-US-CNT[2]	13/412166	2012/0166567		Abandoned
41276	41276-US-CNT[3]	14/941060	2016/0072746	9577970	Expired
41276	41276-US-CNT[4]	15/435445	2017/0163585	10397158	Expired
41276	41276-US-PAT	09/657001		7039678	Expired
41277	41277-US-PAT	10/367995	2004/0162913	7346666	Granted
41278	41278-US-PAT	09/516118		6684088	Expired
41279	41279-US-PAT	09/832009	2001/0029524	6871215	Granted
41279	41279-US-PRV	60/196103			Converted
41280	41280-US-PCT	09/101799		6295052	Expired
41289	41289-US-CNT	11/202577	2006/0007162	7800587	Expired
41289	41289-US-CNT[2]	12/803984	2011/0309954	8928588	Granted
41289	41289-US-PCT	10/476166	2004/0108994	7088340	Granted
41292	41292-US-CNT	14/847464	2015/0379095	9411863	Granted
41292	41292-US-CNT[2]	15/231150	2017/0031921	9811568	Granted
41292	41292-US-PCT	13/634712	2013/0212528	9141701	Granted
41304	41304-US-PAT	13/090361	2012/0269171	8718019	Granted
41306	41306-US-PAT	13/348291	2013/0176333	8963953	Granted
41307	41307-US-PAT	13/418760	2012/0238207	8670714	Granted
41307	41307-US-PRV	61/452511			Converted
41323	41323-US-PAT	13/560668	2013/0189980		Abandoned
41323	41323-US-PRV	61/513375			Converted
41325	41325-US-PAT	13/526921	2013/0339436	8949363	Granted
41330	41330-US-PAT	13/167512	2012/0256949	8941675	Granted
41330	41330-US-PRV	61/472111			Converted
41331	41331-US-PAT	13/440345	2013/0042233	8959506	Granted
41331	41331-US-PRV	61/472826			Converted
41336	41336-US-PAT	13/422941	2012/0239930	9088419	Granted
41336	41336-US-PRV	61/454445			Converted
41341	41341-US-CNT	15/016357	2016/0155271	10062212	Granted
41341	41341-US-PAT	13/406562	2013/0222426	9277367	Granted
41351	41351-US-PAT	13/422767	2012/0269333	9154631	Granted
41351	41351-US-PRV	61/454312			Converted
41352	41352-US-CNT	14/184678	2014/0169543		Abandoned
41352	41352-US-PAT	13/423144	2012/0269334	8699686	Granted
41352	41352-US-PRV	61/454318			Converted
41353	41353-US-CNT	14/827048	2015/0358473	9503566	Granted
41353	41353-US-DIV	14/137966	2014/0179275	9112992	Granted
41353	41353-US-PAT	13/423149	2012/0269335	8644479	Granted
41353	41353-US-PRV	61/454315			Converted
41377	41377-US-CIP	13/369960	2012-0206363	9116616	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
41381	41381-US-PAT	13/210033	2013/0044651	8705556	Granted
41381	41381-US-PAT[2]	13/210066	2013/0044652	8923274	Granted
41392	41392-US-PAT	13/334960	2013/0166761	8812694	Granted
41396	41396-US-CNT	14/454004	2014/0351449	9191447	Granted
41396	41396-US-PAT	13/440070	2012/0260310	8839364	Granted
41396	41396-US-PRV	61/472525			Converted
41397	41397-US-CNT	14/468414	2014/0365674	9148482	Granted
41397	41397-US-PAT	13/440021	2012/0259991	8850036	Granted
41397	41397-US-PRV	61/471941			Converted
41399	41399-US-PAT	13/440089	2012/0258712	8644823	Abandoned Decision
41399	41399-US-PRV	61/471952			Converted
41402	41402-US-PAT	13/436193	2013/0088733	9053411	Granted
41402	41402-US-PRV	61/473488			Converted
41404	41404-US-PAT	13/535921	2014/0002007	9048679	Granted
41406	41406-US-PAT	13/396262	2012/0281366	8805458	Granted
41406	41406-US-PRV	61/482051			Converted
41411	41411-US-PAT	13/454218	2013/0283054	9584451	Granted
41413	41413-US-PAT	13/279385	2013/0103944		Abandoned
41436	41436-US-PAT	13/343741	2013/0178174	8989665	Granted
41440	41440-US-PAT	13/225116	2013/0058485	8699712	Granted
41444	41444-US-PAT	13/246314	2013/0076636	8665220	Granted
41445	41445-US-PAT	13/440109	2012/0259986		Abandoned
41445	41445-US-PRV	61/472007			Converted
41455	41455-US-CNT	14/804133	2015/0324110	10437449	Granted
41455	41455-US-CNT[2]	16/595214	2020/0034030		Allowed (Notice of Allowance)
41455	41455-US-PCT	13/122849	2011/0316797	9086799	Granted
41455	41455-US-PRV	61/102892			Converted
41457	41457-US-PAT	13/072328	2011/0234543	9218119	Granted
41457	41457-US-PRV	61/317288			Converted
41459	41459-US-PAT	13/273747	2013/0093576	8754756	Granted
41484	41484-US-PAT	13/413361	2013/0238698	8671208	Granted
41492	41492-US-PAT	13/079997	2012/0256847	8872773	Granted
41493	41493-US-CNT	15/265634	2017/0006511	9706458	Granted
41493	41493-US-PCT	14/009785	2014/0112250	9485066	Granted
41493	41493-US-PRV	61/472023			Converted
41493	41493-US-PRV[2]	61/496355			Converted
41494	41494-US-PAT	13/340001	2013/0169235	9269994	Granted
41498	41498-US-PAT	13/439901	2013/0268929	9195473	Granted
41501	41501-US-CIP	13/436392	2012/0256857		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
41501	41501-US-PAT	13/079990	2012/0256846		Abandoned
41527	41527-US-PAT	13/348474	2013/0176011	8786264	Granted
41536	41536-US-PAT	13/407385	2013/0225134	8644805	Granted
41603	41603-US-PAT	10/933503	2006/0050664	7453856	Granted
41699	41699-US-PAT	11/678946	2008/0205451	7720164	Granted
41700	41700-US-PAT	11/292415		7711029	Granted
41716	41716-US-PAT	09/983168	2002/0049933	7020191	Granted
41721	41721-US-PAT	13/440264	2012/0257742	8712039	Granted
41721	41721-US-PRV	61/472422			Converted
41723	41723-US-CIP	13/452423	2012/0281567	9680615	Granted
41723	41723-US-PAT	13/099104	2012/0281554	9014020	Granted
41723	41723-US-PRV	61/556118			Converted
41735	41735-US-PAT	13/228850	2013/0067492		Abandoned
41756	41756-US-PAT	13/458189	2012/0275364	8923178	Granted
41756	41756-US-PRV	61/481105			Converted
41756-1	41756-1-US-PAT	13/458226	2012/0275365	8942151	Granted
41756-2	41756-2-US-PAT	13/458338	2012/0275366		Abandoned
41776	41776-US-PAT	13/339485	2013/0172023	8548510	Granted
41781	41781-US-PAT	13/325337	2013/0157637	8712394	Granted
41782	41782-US-PAT	13/456674	2013/0285924		Abandoned
41785	41785-US-CNT	14/633674	2015/0169099	9612673	Granted
41785	41785-US-PAT	13/353505	2013/0187861	9032292	Granted
41787	41787-US-PAT	13/184190	2013/0017814	8958856	Granted
41788	41788-US-PAT	13/355300	2013/0188485	9100448	Granted
41793	41793-US-PAT	13/416639	2013/0237278	8948809	Granted
41795	41795-US-CNT	14/299961	2014/0286405	9172953	Granted
41795	41795-US-PAT	13/166423	2012/0328204	8768082	Granted
41795-1	41795-1-US-CNT	14/463368	2014/0355674	9769449	Granted
41795-1	41795-1-US-PAT	13/166482	2012/0328001	8837582	Granted
41803	41803-US-PAT	13/407798	2013/0221195	8847137	Granted
41805	41805-US-PAT	13/089828	2012/0268387		Abandoned
41807	41807-US-PAT	13/295883	2013/0122827	8995938	Abandoned
41823	41823-US-PAT	13/339863	2013/0173455	10318950	Granted
41828	41828-US-PAT	13/092646	2012/0268624	8692900	Granted
41829	41829-US-PAT	13/411825	2012/0281106	8947546	Granted
41829	41829-US-PRV	61/478494			Converted
41836	41836-US-PAT	13/622831	2014/0076704	9087663	Granted
41842	41842-US-PAT	13/338663	2013/0171929	9154903	Granted
41856	41856-US-PAT	13/345803	2013/0176104	8793810	Granted
41864	41864-US-PCT	14/237748	2014/0171128	9942698	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
41868	41868-US-PAT	13/269117	2013/0090058	8660612	Granted
41869	41869-US-PAT	13/326744	2013/0154950	9990119	Granted
41870	41870-US-PCT	13/583301	2013/0111370	9632649	Granted
41892	41892-US-PAT	13/468803	2013/0121320	9185712	Granted
41915	41915-US-PAT	13/204124	2013/0035121	8725184	Granted
41918	41918-US-PAT	13/404308	2013/0222323	9778706	Granted
41921	41921-US-PCT	14/239459	2014/0329473	9461359	Granted
41939	41939-US-PAT	13/466358	2013/0303191	9066310	Granted
41945	41945-US-PAT	13/397486	2013/0005179	8545247	Granted
41945	41945-US-PRV	61/503451			Converted
41964	41964-US-PAT	13/104420	2012/0285274	8432156	Granted
41969	41969-US-PAT	13/208659	2013/0028180	9107173	Granted
41969	41969-US-PRV	61/512684			Converted
41969-1	41969-1-US-PAT	13/208723	2013/0029657	8965443	Granted
41985	41985-US-PAT	13/209927	2013/0044668	8750179	Granted
41988	41988-US-PAT	13/309994	2013/0142287	8699631	Granted
41989	41989-US-PAT	13/275987	2013/0093691	8810535	Granted
41991	41991-US-CNT	14/064418	2014/0051356	8755744	Granted
41991	41991-US-CNT[2]	14/247356	2014/0220889	9014734	Granted
41991	41991-US-PAT	13/344917	2013/0178154	8594566	Granted
41998	41998-US-PAT	13/304911	2013/0002193	8853998	Granted
41998	41998-US-PRV	61/503450			Converted
42000	42000-US-PAT	13/649787	2013/0095757	9131327	Granted
42000	42000-US-PRV	61/546440			Converted
42021	42021-US-CNT	14/164962	2014/0141835	9609096	Granted
42021	42021-US-CNT[2]	15/432979	2017/0163314	10623540	Granted
42021	42021-US-PAT	13/269054	2013/0090073	8676116	Granted
42022	42022-US-PAT	13/308985	2013/0143486	8744357	Granted
42024	42024-US-PAT	13/295410	2013/0120222	8907963	Granted
42025	42025-US-PAT	13/628323	2014/0086134	8982762	Granted
42038	42038-US-PAT	13/494546	2013/0328793	9041667	Granted
42050	42050-US-PAT	13/416698	2013/0234894	9194934	Granted
42056	42056-US-PAT	13/286652	2013/0111581	9223948	Granted
42063	42063-US-PAT	13/659208	2013/0151993	10129321	Granted
42063	42063-US-PRV	61/568879			Converted
42080	42080-US-PAT	13/404239	2013/0222154		Abandoned
42090	42090-US-CNT	13/740996			Abandoned
42090	42090-US-PAT	13/486302	2013/0320765	9041249	Granted
42099	42099-US-PAT	13/524358	2012/0327294		Abandoned
42099	42099-US-PRV	61/501099			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
42118	42118-US-PAT	13/330266	2013/0158936	9008993	Granted
42122	42122-US-PAT	13/459205	2013/0288729	9088976	Granted
42130	42130-US-PAT	13/359806	2013/0195219		Abandoned
42148	42148-US-PAT	13/481077	2012/0300925	9325642	Granted
42151	42151-US-PAT	09/745961	2001/0005874	6658518	Granted
42156	42156-US-PAT	09/665262		6813282	Granted
42162	42162-US-PAT	09/598479		6529977	Expired
42163	42163-US-PAT	09/598477		7145915	Expired
42169	42169-US-PAT	13/155181	2012/0317609	9053337	Granted
42192	42192-US-PAT	13/364874	2013/0114434	8848560	Granted
42192	42192-US-PRV	61/555557			Converted
42204	42204-US-CNT	14/133744	2014/0104505	8953246	Granted
42204	42204-US-PAT	13/421348	2013/0242402	8643950	Granted
42223	42223-US-PAT	13/558000	2013/0230119	8942308	Granted
42223	42223-US-PRV	61/511281			Converted
42223-1	42223-1-US-PAT	13/558014	2013/0259149	8971435	Granted
42226-1	42226-1-US-PAT	13/295499	2013/0121259	9258820	Granted
42226-2	42226-2-US-PAT	13/295605	2013/0121260	9271294	Granted
42227	42227-US-CNT	13/357011	2012/0118492	9694520	Granted
42228	42228-US-PAT	13/560642	2013/0189992	9467917	Granted
42228	42228-US-PRV	61/513383			Converted
42236	42236-US-PAT	13/299546	2013/0132865	8655385	Granted
42243	42243-US-PAT	13/458594	2013/0236019	9065642	Granted
42243	42243-US-PRV	61/607681			Converted
42252	42252-US-PAT	13/487055	2013/0046976	9118667	Granted
42252	42252-US-PRV	61/493272			Converted
42256	42256-US-PCT	14/370767	2016/0269622	9602718	Granted
42260	42260-US-CNT	14/160049	2014/0135073	9319503	Granted
42260	42260-US-PAT	13/541985	2014/0011546	8634812	Granted
42280	42280-US-PAT	13/357409	2013/0188499	8942205	Granted
42286	42286-US-PAT	13/299468	2013/0127711		Abandoned
42288	42288-US-PAT	13/311152	2013/0140163	9040850	Granted
42301	42301-US-PAT	13/152565	2012/0311020	9401917	Granted
42308	42308-US-CNT	13/952816	2013/0311779	8909934	Granted
42308	42308-US-PAT	13/369487	2013/0073856	8522035	Granted
42308	42308-US-PRV	61/536785			Converted
42310	42310-US-CNT	13/563182	2013/0125036	9032322	Granted
42310	42310-US-CNT[2]	13/918642	2013/0263038		Abandoned
42310	42310-US-PAT	13/373356	2013/0125034	8490008	Granted
42314	42314-US-PAT	13/463965	2012/0314856	10148422	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
42314	42314-US-PRV	61/495788			Converted
42314-1	42314-1-US-CNT	16/150930	2020/0028694	10652026	Granted
42314-1	42314-1-US-CNT[2]	16/870695	2020/0304316	10944575	Granted
42314-1	42314-1-US-PAT	13/464007	2012/0317412	10110386	Granted
42314-1	42314-1-US-PRV	61/495790			Converted
42315	42315-US-PCT	13/635298	2013/0167063	10025500	Granted
42326	42326-US-PAT	12/886022	2011/0071878	8712820	Granted
42326	42326-US-PRV	61/244068			Converted
42334	42334-US-PAT	13/341156	2013/0169778	9294718	Granted
42352	42352-US-CNT	14/082223	2014/0073318		Abandoned
42352	42352-US-CNT[2]	14/862897	2016/0014683	9369953	Granted
42352	42352-US-PAT	13/360161	2013/0196651	8606265	Granted
42360	42360-US-CNT	14/739830	2015/0282201	10314062	Granted
42360	42360-US-PAT	13/194380	2013/0029704	9060280	Granted
42360-1	42360-1-US-PAT	13/194412	2013/0028201	8842602	Granted
42365	42365-US-PAT	13/416489	2013/0237242	9042907	Granted
42378	42378-US-PAT	13/475539	2013/0308497	8934456	Granted
42381	42381-US-PAT	13/224018	2013/0059569	9832317	Granted
42382	42382-US-CNT	14/495229	2015/0012874	9740400	Granted
42382	42382-US-PAT	13/247834	2013/0080963	8856674	Granted
42398	42398-US-PAT	13/323025	2013/0148791	8670530	Granted
42417	42417-US-CNT	14/849050	2015/0378601	9383921	Granted
42417	42417-US-PAT	13/339155	2013/0113720	9141280	Granted
42418	42418-US-PAT	13/193023	2013/0028199	9742516	Granted
42431	42431-US-PAT	13/334136	2013/0162515	9116663	Granted
42433	42433-US-PAT	13/747207	2014/0206403	10924895	Granted
42437	42437-US-PAT	13/528900	2012/0331287	9209980	Granted
42437	42437-US-PRV	61/499589			Converted
42452	42452-US-PAT	13/543091	2014/0013024	8959272	Granted
42468	42468-US-PAT	13/315622	2013/0152185	8918855	Granted
42476	42476-US-PAT	13/364983	2013/0201692	8833959	Granted
42478	42478-US-PCT	13/634927	2013/0145138	9081745	Granted
42487	42487-US-PAT	13/339151	2013/0113719		Abandoned
42488	42488-US-CNT	14/315009	2014/0310611	9684434	Granted
42488	42488-US-PAT	13/401564	2013/0214995	8786517	Granted
42495	42495-US-PAT	13/368850	2013/0203347	8792824	Granted
42516	42516-US-PAT	13/399140	2013/0218946	9270759	Granted
42538	42538-US-CNT	14/320015	2014/0315597	9125231	Granted
42538	42538-US-PAT	13/416745	2013/0237226	8805375	Granted
42549	42549-US-PAT	13/336419	2013/0163738	8638917	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
42551	42551-US-PAT	13/248638	2012/0083284	8917586	Granted
42551	42551-US-PAT[2]	13/467277	2013/0039288	8891353	Granted
42551	42551-US-PAT[3]	13/572351	2013/0039300	9143215	Granted
42551	42551-US-PAT[4]	13/466589	2013/0039163	8908492	Granted
42551	42551-US-PRV	61/522434			Converted
42551	42551-US-PRV[2]	61/541848			Converted
42551	42551-US-PRV[3]	61/555572			Converted
42551	42551-US-PRV[4]	61/590262			Converted
42552	42552-US-PAT	13/209254	2013/0038541	8884892	Granted
42564	42564-US-PAT	13/666603	2014/0122589	9843607	Granted
42584	42584-US-PAT	13/273936	2013/0093685	8610684	Granted
42586	42586-US-PAT	13/274819	2013/0093686	9081547	Granted
42590	42590-US-PAT	13/283426	2013/0111224	8635467	Granted
42591	42591-US-PAT	13/283456		8334705	Granted
42592	42592-US-PAT	13/283472	2013/0111204	8627131	Granted
42599	42599-US-PAT	13/407833	2013/0222228		Abandoned
42607	42607-US-PAT	13/359873	2013/0196594	8855557	Granted
42609	42609-US-CNT	15/478824	2017/0208098	10848520	Granted
42609	42609-US-PAT	13/293743	2013/0125198	9613219	Granted
42610	42610-US-CNT	14/942599	2016/0070606	11086692	Granted
42610	42610-US-PAT	13/412337	2013/0103816	9189753	Granted
42610	42610-US-PRV	61/550830			Converted
42631	42631-US-PCT	13/635321	2013/0271498	9013513	Granted
42633	42633-US-PAT	13/359894	2013/0196595	8688038	Granted
42657	42657-US-PAT	13/554707	2013/0029642	8676166	Granted
42657	42657-US-PRV	61/513077			Converted
42663	42663-US-CNT	14/992736	2016/0128015	10034260	Granted
42663	42663-US-CNT[2]	16/042777	2018/0332556	11129123	Granted
42663	42663-US-PAT	13/417658	2013/0237148	9253589	Granted
42670	42670-US-PAT	13/673398	2013/0122918	9049657	Granted
42670	42670-US-PRV	61/558850			Converted
42673	42673-US-PAT	13/408411	2013/0039268	9332516	Granted
42673	42673-US-PRV	61/522395			Converted
42676	42676-US-PAT	13/415119	2013/0238744	9208001	Granted
42677	42677-US-PAT	13/428220	2013/0249939	9047795	Granted
42679	42679-US-CNT	13/488300			Abandoned
42679	42679-US-CNT[2]	14/607820	2015/0140930	9438671	Granted
42679	42679-US-CNT[3]	15/239504	2016/0359960	9705982	Granted
42679	42679-US-PAT	13/276078	2013/0095753	8954003	Granted
42689	42689-US-PAT	13/396771	2013/0211842	8788273	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
42693	42693-US-PAT	13/360197	2013/0194138	9337528	Granted
42704	42704-US-PCT	13/635375	2013/0198392	10097591	Granted
42708	42708-US-CNT	14/298289	2014/0286242	9794967	Granted
42708	42708-US-CNT[2]	15/785121	2018/0042058	10200941	Granted
42708	42708-US-CNT[3]	16/261131	2019/0159114	11166226	Granted
42708	42708-US-CNT[4]	17/514626			Filing
42708	42708-US-PAT	13/234799	2013/0070644	8750180	Granted
42712	42712-US-PAT	13/360223	2013/0194224	9262020	Granted
42714	42714-US-PAT	13/462863	2013/0295989	9307414	Granted
42715	42715-US-PAT	13/345768	2013/0179148		Abandoned
42718	42718-US-PCT	14/357404	2014/0287698	9331723	Granted
42719	42719-US-PAT	13/708168	2013/0151989	9164649	Granted
42719	42719-US-PRV	61/568143			Converted
42721	42721-US-PAT	13/536508	2013/0097526		Abandoned
42721	42721-US-PRV	61/548168			Converted
42723	42723-US-PAT	13/654099	2013/0097173	9225820	Granted
42723	42723-US-PRV	61/548131			Converted
42725	42725-US-PAT	13/359918	2013/0194136		Abandoned
42726	42726-US-PAT	13/418437	2013/0069924	8817002	Granted
42726	42726-US-PRV	61/530160			Converted
42727	42727-US-PAT	13/282716	2013/0051315	9860735	Granted
42731	42731-US-PCT	13/634930	2013/0311941	9435801	Granted
42744	42744-US-PAT	13/439964	2013/0268751	9100497	Granted
42752	42752-US-PAT	13/250486	2013/0084910	9204316	Granted
42762	42762-US-PAT	13/467151	2013/0117439	9413589	Granted
42762	42762-US-PRV	61/557207			Converted
42769	42769-US-CNT	14/485855	2015/0007310	9384341	Granted
42769	42769-US-PAT	13/486145	2013/0326614	8844026	Granted
42786	42786-US-PCT	14/236803	2014/0179258	10165428	Granted
42799	42799-US-PAT	13/487078	2013/0325949	9250983	Abandoned
42818	42818-US-PAT	13/673384	2014/0135006	9467872	Granted
42818-1	42818-1-US-CNT	13/673414	2014/0135007	9258745	Granted
42818-2	42818-2-US-CNT	15/251853	2016/0373980	10028185	Granted
42818-2	42818-2-US-PAT	13/673439	2014/0135008	9473952	Granted
42818-3	42818-3-US-PAT	13/673474	2014/0134942	9763110	Granted
42826	42826-US-CNT	13/673954	2013/0114759	9184958	Granted
42831	42831-US-PAT	13/592826	2013/0051374	9848421	Granted
42832	42832-US-PAT	13/840270	2014/0269450	9628171	Granted
42837	42837-US-PAT	13/354592	2013/0191462	9218629	Granted
42841	42841-US-PAT	13/360244	2013/0194196	8780028	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
42849	42849-US-CNT	13/615370	2013/0097562	8548382	Granted
42849	42849-US-CNT[2]	13/619558	2013/0095891	8559874	Granted
42849	42849-US-CNT[3]	13/619670	2013/0097515	8503936	Granted
42849	42849-US-PAT	13/397533	2013/0095801	8634807	Granted
42855	42855-US-PAT	13/483628	2013/0324054	8934929	Granted
42856	42856-US-PAT	13/628330	2013/0088520	10466886	Granted
42856	42856-US-PRV	61/544366			Converted
42867	42867-US-PAT	13/359916	2013/0196596	8718553	Granted
42896	42896-US-DIV	14/736033	2015/0282029	9516567	Granted
42896	42896-US-PAT	13/662123	2013/0107863		Abandoned
42896	42896-US-PRV	61/552875			Converted
42897	42897-US-PAT	13/363880	2013/0194067	9262604	Granted
42900	42900-US-PAT	13/458320	2013/0287207	8995656	Granted
42913	42913-US-PAT	13/234944	2013/0073850	9172529	Granted
42917	42917-US-PAT	13/555490	2013/0102246	9008576	Granted
42917	42917-US-PRV	61/550044			Converted
42918	42918-US-PAT	13/597327	2013/0160134	8984648	Granted
42918	42918-US-PRV	61/576162			Converted
42922	42922-US-PAT	13/437062	2013/0262728	8996776	Granted
42936	42936-US-PAT	13/354520	2013/0188671	9106190	Granted
42939	42939-US-PAT	13/551913	2014/0023123	9653779	Granted
42953	42953-US-PAT	13/418440	2013/0241839	8866769	Granted
42955	42955-US-PAT	13/360414	2013/0196719	8494468	Granted
42961	42961-US-PAT	13/331851	2013/0103815	9756501	Granted
42961	42961-US-PRV	61/550684			Converted
42967	42967-US-PAT	13/360399	2013/0089040	9825741	Granted
42967	42967-US-PRV	61/544982			Converted
42972	42972-US-CNT	14/028041	2014/0047390	9753611	Granted
42972	42972-US-CNT[2]	15/694573	2017/0364218	10936153	Granted
42972	42972-US-PAT	13/550360	2013/0227482	8539375	Granted
42972	42972-US-PRV	61/602904			Converted
42977	42977-US-PAT	13/550388	2013/0227490		Abandoned
42977	42977-US-PRV	61/602938			Converted
42978	42978-US-PAT	13/550393	2013/0227470	9081498	Granted
42978	42978-US-PRV	61/602945			Converted
42983	42983-US-PAT	13/610396	2013/0064215	8842628	Granted
42983	42983-US-PAT[2]	13/610434	2013/0064196	9084238	Granted
42983	42983-US-PAT[3]	13/610464	2013/0064216		Abandoned
42983	42983-US-PRV	61/533470			Converted
42983	42983-US-PRV[2]	61/541514			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
42983	42983-US-PRV[3]	61/554582			Converted
42983	42983-US-PRV[4]	61/576558			Converted
42983	42983-US-PRV[5]	61/606839			Converted
42983	42983-US-PRV[6]	61/611968			Converted
42983	42983-US-PRV[7]	61/644089			Converted
42989	42989-US-PAT	13/562967	2014/0038605		Abandoned
42989-1	42989-1-US-PAT	13/562981	2014/0038616		Abandoned
42992	42992-US-PAT	13/360250	2013/0196597	8909139	Granted
42997	42997-US-PAT	13/448132	2013/0273964	8725219	Granted
42999	42999-US-CNT	15/361862	2017/0075435	9958964	Granted
42999	42999-US-PAT	13/396871	2013/0212677	9507967	Granted
43021	43021-US-PAT	13/477656	2013/0314561	8830356	Granted
43024	43024-US-CNT	14/138545	2014/0106682	9014646	Granted
43024	43024-US-PAT	13/359988	2013/0196710	8655288	Granted
43034	43034-US-PAT	13/362139	2013/0198680	9323416	Granted
43042	43042-US-PAT	13/561925		8611865	Granted
43060	43060-US-PAT	13/359889	2013/0196716	8682395	Granted
43064	43064-US-PAT	13/443072	2013/0264992	9184622	Granted
43067	43067-US-CNT	14/837081	2015/0373317	9743067	Granted
43067	43067-US-PAT	13/645540	2014/0098193	9137517	Granted
43079	43079-US-PAT	13/542910	2014/0013414	9069932	Granted
43082	43082-US-PAT	13/623178	2013/0145165	9544148	Granted
43082	43082-US-PRV	61/566154			Converted
43084	43084-US-CNT	14/340280	2014/0337619	9313033	Granted
43084	43084-US-PAT	13/310356	2013/0145151	8843740	Granted
43085	43085-US-CNT	14/702986	2015/0236860	9419806	Granted
43085	43085-US-PAT	13/336217	2013/0166907	9026789	Granted
43086	43086-US-CNT	14/457722	2014/0359293	9300655	Granted
43086	43086-US-PAT	13/566252	2013/0145153	8826008	Granted
43086	43086-US-PRV	61/566410			Converted
43093	43093-US-PAT	13/399541	2013/0077507	9253713	Granted
43093	43093-US-PAT[2]	13/399625	2013/0079049	9008720	Granted
43093	43093-US-PAT[3]	13/399596	2013/0079019	8843139	Granted
43093	43093-US-PRV	61/539333			Converted
43095	43095-US-PAT	13/363291	2013/0194187	8947380	Granted
43099	43099-US-PAT	13/719543	2013/0163532	8964678	Granted
43099	43099-US-PRV	61/579947			Converted
43099-1	43099-1-US-PAT	13/719635	2013/0163534	8989122	Granted
43099-1	43099-1-US-PRV	61/579964			Converted
43099-2	43099-2-US-PAT	13/719608	2013/0163533	8964679	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
43099-2	43099-2-US-PRV	61/579940			Converted
43099-3	43099-3-US-PAT	13/719667	2013/0163535	9088971	Granted
43099-3	43099-3-US-PRV	61/579923			Converted
43099-4	43099-4-US-PAT	13/720067	2013/0163536	8929319	Granted
43099-4	43099-4-US-PRV	61/579913			Converted
43099-5	43099-5-US-PAT	13/720224	2013/0163537	9247563	Granted
43099-5	43099-5-US-PRV	61/579935			Converted
43101	43101-US-CNT	14/882594	2016/0037048	10003730	Granted
43101	43101-US-PAT	13/408847	2013/0222627	9185248	Granted
43103	43103-US-PCT	13/634643	2013/0222583		Abandoned
43116	43116-US-PAT	13/555792	2014/0001936	8891236	Granted
43116	43116-US-PRV	61/666439			Converted
43118	43118-US-PAT	13/486330	2013/0321351	8884930	Granted
43120	43120-US-CNT	14/465214	2014/0362508	9007753	Granted
43120	43120-US-PAT	13/524375	2013/0335904	8842423	Granted
43128	43128-US-PAT	13/407823	2013/0227029	8825781	Granted
43140	43140-US-CNT	14/479836	2014/0376622	10178391	Granted
43140	43140-US-PAT	13/249304	2013/0083845		Abandoned
43141	43141-US-PCT	13/634904	2013/0227420	9264245	Granted
43147	43147-US-PAT	13/451403	2013/0283091	8972792	Granted
43157	43157-US-PAT	13/373889	2013/0143548		Abandoned
43164	43164-US-PAT	13/273503	2013/0097420	8745376	Granted
43167	43167-US-PAT	13/289695	2013/0114515	9419740	Granted
43167-1	43167-1-US-PAT	13/289697	2013/0114516	9240846	Granted
43169	43169-US-PAT	13/355196	2013/0189923	8688043	Granted
43173	43173-US-PAT	13/414477	2013/0097116		Abandoned
43173	43173-US-PRV	61/547817			Converted
43176	43176-US-PAT	13/396879	2013/0212678	8631490	Granted
43178	43178-US-PAT	13/355161	2013/0190060	8718701	Granted
43188	43188-US-PAT	13/289812	2013/0114517	9473279	Granted
43191	43191-US-PAT	13/274913	2013/0097657	9497220	Granted
43192	43192-US-CNT	14/880319	2016/0037348	9402184	Granted
43192	43192-US-CNT[2]	15/218776	2016/0337862	10735964	Granted
43192	43192-US-PAT	13/275097	2013/0097316	9161226	Granted
43193	43193-US-PAT	13/838516	2014/0274116	9121931	Granted
43204	43204-US-PAT	13/532113	2013/0342972	8724317	Granted
43205	43205-US-PAT	13/551927	2014/0022709		Abandoned
43206	43206-US-PAT	13/408335	2013/0222981	8804318	Granted
43207	43207-US-PAT	13/551951	2014/0022710	8899852	Granted
43208	43208-US-PAT	13/523347	2013/0335890	8830667	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
43209	43209-US-PAT	13/469354	2013/0300672		Abandoned
43212	43212-US-CNT	14/467831	2014/0365902	9652142	Granted
43212	43212-US-PAT	13/276122	2013/0093662	8816958	Granted
43233	43233-US-PAT	13/849983	2014/0286407	9774869	Granted
43236	43236-US-PAT	13/449854	2013/0278619	8847970	Granted
43240	43240-US-CNT	14/726931	2015/0264541	9641992	Granted
43240	43240-US-CNT[2]	15/583694	2017/0235926	10083283	Granted
43240	43240-US-CNT[3]	16/139450	2019/0026441		Publication of Application
43240	43240-US-PCT	13/635284	2013/0196590	9049577	Granted
43245	43245-US-PAT	13/546896	2014/0019877	9176647	Granted
43280	43280-US-PAT	13/649911	2013/0117622	9043667	Granted
43280	43280-US-PRV	61/556102			Converted
43283	43283-US-CNT	14/965224	2016/0098133	9594449	Granted
43283	43283-US-PAT	13/360218	2013/0194195	9229567	Granted
43292	43292-US-CNT	10/253819	2003/0067905	7012894	Expired
43292	43292-US-CNT[2]	11/188692	2005/0259582	7773518	Granted
43292	43292-US-CNT[3]	13/336834	2012/0106681	8483060	Expired
43292	43292-US-CNT[4]	13/351705	2012/0120856	8467292	Expired
43292	43292-US-CNT[5]	13/618573	2013/0010733	9225465	Expired
43292	43292-US-DIV	11/241988	2006/0083190	8116198	Expired
43292	43292-US-DIV[2]	11/929769	2008/0144646	7855964	Expired
43292	43292-US-DIV[3]	11/929854	2008/0144492	7864680	Expired
43292	43292-US-DIV[4]	11/929894	2008/0144592	8111621	Expired
43292	43292-US-PAT	09/641918		6510137	Expired
43293	43293-US-CNT	11/126177	2005/0232215	7031285	Granted
43293	43293-US-CNT[2]	11/124270	2005/0201338	7050413	Granted
43293	43293-US-DIV[2]	11/330080	2006/0114935	7664077	Granted
43293	43293-US-PAT	10/225204	2003/0142694	6999439	Granted
43293	43293-US-PCD	11/311272	2006/0109822	7593369	Granted
43293	43293-US-PCD[2]	11/311160	2006/0098601	7656871	Granted
43293	43293-US-PCD[3]	11/311271	2006/0098602	7532602	Granted
43293	43293-US-PCT	10/498009	2005/0037719	7061892	Granted
43295	43295-US-CNT[4]	13/367682	2012/0135742	9288768	Expired
43295	43295-US-CNT[5]	13/367249	2012/0263149	8406203	Expired
43295	43295-US-PCD	10/829183	2004/0198359	7236792	Expired
43295	43295-US-PCD[2]	11/113301	2005/0213535	7349368	Expired
43295	43295-US-PCD[3]	11/291950	2006/0142042	7421282	Expired
43295	43295-US-PCD[4]	11/932607	2008/0125135	8140088	Expired
43295	43295-US-PCT	09/355880		6745049	Expired

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
43297	43297-US-CNT	11/203270	2006/0035661	7352698	Granted
43297	43297-US-CNT[2]	12/197884	2008/0318586	8699331	Abandoned
43298	43298-US-PCT	10/568508	2007/0025422	7519105	Granted
43299	43299-US-CNT	13/302525	2012/0063422	8289932	Granted
43299	43299-US-CNT[2]	13/287870	2012/0046061	8311572	Granted
43299	43299-US-CNT[3]	13/618649	2013/0010765	8588843	Granted
43299	43299-US-PCD	11/408173	2006/0189334	8072986	Granted
43299	43299-US-PCT	10/572599	2006/0256756	7684408	Reissued (Inactive Parent)
43299	43299-US-REI	12/839030		RE43385	Granted
43306	43306-US-PAT	13/723926	2014/0177536		Abandoned
43306	43306-US-PAT[2]	13/724020	2014/0177458	9271302	Granted
43320	43320-US-PCT	14/408745	2015/0323905	9417612	Granted
43329	43329-US-PAT	13/543270	2014/0011469	9591466	Granted
43334	43334-US-PAT	13/293634	2013/0125228	8955084	Granted
43335	43335-US-CNT	14/264556	2014/0233714	9042531	Granted
43335	43335-US-PAT	13/365584	2013/0114804	8750474	Granted
43335	43335-US-PRV	61/557651			Converted
43340	43340-US-PAT	13/940007	2015/0019652	10313286	Granted
43343	43343-US-CNT	14/291323	2014/0273841	9173247	Granted
43343	43343-US-PAT	13/359804	2013/0196711	8798536	Granted
43344	43344-US-PAT	13/650982	2013/0097519	9672050	Granted
43344	43344-US-PRV	61/548647			Converted
43350	43350-US-CNT	14/507161	2015/0022457	9454237	Granted
43350	43350-US-PAT	13/490626	2013/0106706	8854312	Granted
43350	43350-US-PRV	61/552926			Converted
43351	43351-US-PAT	13/654914	2013/0097520	9075631	Granted
43351	43351-US-PRV	61/548652			Converted
43351-1	43351-1-US-PAT	13/654947	2013/0097534		Abandoned
43351-1	43351-1-US-PRV	61/548658			Converted
43351-2	43351-2-US-PAT	13/654930	2013/0097521	8984448	Granted
43351-2	43351-2-US-PRV	61/548664			Converted
43354	43354-US-CNT	14/964269	2016/0085394	9952745	Granted
43354	43354-US-PAT	13/654039	2013/0097539	9218105	Granted
43354	43354-US-PRV	61/548641			Converted
43366	43366-US-PAT	13/359883	2013/0194933	9461776	Granted
43367	43367-US-PAT	13/715621	2013/0159893	9195362	Granted
43367	43367-US-PRV	61/576870			Converted
43375	43375-US-PAT	13/523313	2013/0337799	9967814	Granted
43376	43376-US-PAT	13/456275	2013/0286033	8963891	Granted

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43388	43388-US-CNT	14/557431	2015/0089005	9231902	Granted
43388	43388-US-PAT	13/399621	2013/0097239	8930492	Granted
43388	43388-US-PRV	61/548193			Converted
43396	43396-US-PAT	13/458409	2013/0290132	11216854	Granted
43400	43400-US-PAT	13/369023	2013/0201108	9395901	Granted
43403	43403-US-PAT	13/542755	2014/0009348	9099765	Granted
43405	43405-US-PAT	13/442500	2013/0265890	8953474	Granted
43407	43407-US-PAT	13/530411	2013/0117658	9824137	Granted
43407	43407-US-PRV	61/557121			Converted
43414	43414-US-PCT	13/634444	2013/0246527	9032025	Granted
43427	43427-US-PAT	13/676730	2014/0136834	8996855	Granted
43434	43434-US-DIV	14/810046	2015/0331924		Abandoned
43434	43434-US-PAT	13/354493	2013/0191332	9092499	Granted
43465	43465-US-PAT	13/756979	2014/0219463	9143863	Granted
43466	43466-US-CNT	15/196484	2016/0309271	9877126	Granted
43466	43466-US-PAT	13/777942	2014/0241535	9681241	Granted
43469	43469-US-CNT	14/537278	2015/0063155	9226263	Granted
43469	43469-US-CNT[2]	14/834753	2015/0365915	9467971	Granted
43469	43469-US-PAT	13/545674	2013/0114483	8885509	Granted
43469	43469-US-PRV	61/556087			Converted
43469-1	43469-1-US-PAT	13/545700	2013/0114484	8964672	Granted
43469-1	43469-1-US-PRV	61/556113			Converted
43469-2	43469-2-US-PAT	13/545696	2013/0114573	8976764	Granted
43469-2	43469-2-US-PRV	61/556123			Converted
43473	43473-US-PAT	13/779742	2014/0241130	9111438	Granted
43485	43485-US-PAT	13/626595	2013/0183987	8606286	Granted
43485	43485-US-PRV	61/587004			Converted
43494	43494-US-PAT	13/784457	2013/0322461	9479275	Granted
43494	43494-US-PRV	61/654386			Converted
43496	43496-US-PAT	13/678615	2014/0140521	9313592	Granted
43499	43499-US-PAT	13/331930	2013/0157638	9037123	Granted
43502	43502-US-PCT	13/634473	2013/0275459	8935283	Granted
43516	43516-US-CIP	13/803393	2013/0322462	9252900	Granted
43516	43516-US-CNT	15/011158	2016/0147686	9672177	Granted
43516	43516-US-PRV	61/654287			Converted
43521	43521-US-CNT	14/318005	2014/0301547	10079673	Granted
43521	43521-US-PAT	13/307078	2013/0136255	8787564	Granted
43526	43526-US-PAT	13/408818	2013/0222274	9817568	Granted
43530	43530-US-PAT	13/407444	2013/0121325	8942221	Granted
43530	43530-US-PRV	61/558270			Converted

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43532	43532-US-PAT	13/527017	2013/0039290		Abandoned
43532	43532-US-PRV	61/556356			Converted
43537	43537-US-PAT	13/550643	2013/0155311	8786769	Granted
43537	43537-US-PRV	61/570896			Converted
43543	43543-US-PAT	13/611886	2013/0109308	9197293	Granted
43543	43543-US-PRV	61/554931			Converted
43557	43557-US-PAT	13/563447	2013/0219471	9015809	Granted
43557	43557-US-PRV	61/600902			Converted
43562	43562-US-PAT	13/399598	2013/0215071		Abandoned
43565	43565-US-PAT	13/416985	2013/0238651	9299057	Granted
43576	43576-US-PAT	13/475326	2013/0179771	9317485	Granted
43576	43576-US-PRV	61/584359			Converted
43591	43591-US-CNT	14/799392	2015/0319164	9621545	Granted
43591	43591-US-PAT	13/741598	2013/0232554	9106635	Granted
43591	43591-US-PRV	61/605598			Converted
43595	43595-US-PAT	13/611836	2013/0111598	9106272	Granted
43595	43595-US-PRV	61/563319			Converted
43609	43609-US-CNT	14/583947	2015/0110408	9264722	Granted
43609	43609-US-PAT	13/681551	2013/0129241	8942495	Granted
43609	43609-US-PRV	61/562294			Converted
43610	43610-US-CNT	14/507686	2015/0026601		Abandoned
43610	43610-US-PAT	13/310678	2013/0143539	8868051	Granted
43611	43611-US-CNT	13/728446	2013/0144952	9258338	Granted
43611	43611-US-PAT	13/310681		8364133	Granted
43626	43626-US-PAT	13/523494	2013/0335452		Abandoned
43636	43636-US-PAT	13/476233	2013/0309978	8934845	Granted
43637	43637-US-CNT	14/980847	2016/0110440	9594820	Granted
43637	43637-US-PAT	13/414503	2013/0144835	9223842	Granted
43637	43637-US-PRV	61/566769			Converted
43643	43643-US-PAT	13/663029	2014/0123267	8978126	Granted
43646	43646-US-PAT	13/464805	2013/0293484	9367120	Granted
43647	43647-US-PAT	13/667923	2014/0129600	9425826	Granted
43648	43648-US-PAT	13/523244	2013/0335402	9628770	Granted
43666	43666-US-PAT	13/410734	2013/0229944	8953490	Granted
43677	43677-US-PAT	13/630974	2013/0191765	9141278	Granted
43677	43677-US-PRV	61/590218			Converted
43678	43678-US-PAT	13/630962	2013/0187957	9285952	Granted
43678	43678-US-PRV	61/590224			Converted
43690	43690-US-CNT	14/482176	2014/0376670	9065695	Granted
43690	43690-US-PAT	13/537455	2014/0003557	8837644	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
43696	43696-US-PAT	13/556958	2014/0028701		Abandoned
43697	43697-US-PAT	13/411798	2013/0231068	9246211	Granted
43698	43698-US-PAT	13/489735	2013/0329360	8780549	Granted
43706	43706-US-PAT	13/490962	2013/0182653	9178664	Granted
43706	43706-US-PRV	61/585995			Converted
43714	43714-US-PAT	13/525585	2013/0339504	9026604	Granted
43719	43719-US-PAT	13/444044	2013/0271431	8878824	Granted
43727	43727-US-PAT	13/557507	2014/0029480	8743746	Granted
43727	43727-US-PAT[2]	13/949259	2014/0029481	8681665	Granted
43745	43745-US-PAT	13/710856	2014/0160926	9204467	Granted
43751	43751-US-PAT	13/474962	2013/0309966	9923587	Granted
43754-2	43754-2-US-PAT	13/600673	2014/0067807	9836548	Granted
43757	43757-US-PAT	13/464811	2013/0293507	9244572	Granted
43760	43760-US-PCT	12/837270	2010/0306528	8621199	Granted
43760	43760-US-PRV	61/021357			Converted
43761	43761-US-CNT	12/837264	2010/0281258	9716689	Granted
43761	43761-US-PRV	61/095387			Converted
43776	43776-US-PAT	13/354437	2013/0188724	9172962	Granted
43790	43790-US-PAT	13/419987	2013/0189924	8995908	Granted
43790	43790-US-PRV	61/590614			Converted
43800	43800-US-PAT	13/723429	2014/0181955	9594896	Granted
43803	43803-US-CIP	13/439688	2013/0227119	9264504	Granted
43803	43803-US-PAT	13/408891	2013/0227118	9270772	Granted
43806	43806-US-PAT	13/790685	2014/0254820	9438993	Granted
43817	43817-US-PAT	13/793166	2014/0215206	9473309	Granted
43817	43817-US-PRV	61/758166			Converted
43819	43819-US-PAT	13/421312	2013/0243213	9184791	Granted
43820	43820-US-PAT	13/527094	2013/0339455		Abandoned
43833	43833-US-PAT	13/486021	2013/0322862	8718459	Granted
43837	43837-US-PAT	13/665953	2014/0123065	9207777	Granted
43848	43848-US-PAT	13/471620	2013/0309444	9539749	Granted
43851	43851-US-CNT	14/925378	2016/0066322	9986559	Granted
43851	43851-US-CNT[2]	15/990118	2018/0376475	10904877	Granted
43851	43851-US-PAT	13/572092	2014/0044105	9184886	Granted
43856	43856-US-PAT	13/546926	2014/0016681	8787225	Granted
43856-1	43856-1-US-PAT	13/546910	2014/0016451	8792399	Granted
43857	43857-US-PAT	13/449879	2013/0281020	8718558	Granted
43874	43874-US-PCT	13/634830	2013/0347128	8887305	Granted
43878	43878-US-CNT	14/163777		8977688	Granted
43878	43878-US-PAT	13/404057	2013/0227096	8682974	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
43897	43897-US-PAT	13/460772	2013/0289975	8972241	Granted
43906	43906-US-PAT	13/534226		8532675	Granted
43913	43913-US-PAT	13/530394	2013/0342421	9680218	Granted
43918	43918-US-PAT	13/467495	2013/0300671	9494973	Granted
43954	43954-US-CIP	13/482705	2013/0120266	9122672	Granted
43954	43954-US-PRV	61/588541			Converted
43955	43955-US-PAT	13/589405	2013/0187857	9134810	Granted
43955	43955-US-PRV	61/588534			Converted
43956	43956-US-PAT	13/616423	2013/0187858	9152323	Granted
43956	43956-US-PRV	61/588504			Converted
43957	43957-US-PAT	13/484710	2013/0325438	9128921	Granted
43958	43958-US-CNT	13/560796			Abandoned
43958	43958-US-CNT[2]	14/953627	2016/0077733		Abandoned
43958	43958-US-PAT	13/447704	2013/0275923	9201510	Granted
43967	43967-US-PAT	13/443143	2013/0269026	8875283	Granted
43969	43969-US-CNT	15/167594	2016/0344539	9871650	Granted
43969	43969-US-PAT	13/531250	2013/0343208	9356774	Granted
43975	43975-US-CNT	14/854685	2016/0007272	9622155	Granted
43975	43975-US-CNT[2]	15/483759	2017/0215129	10142921	Granted
43975	43975-US-CNT[3]	16/176467	2019/0069222	10736020	Granted
43975	43975-US-CNT[4]	16/912249	2020/0329421		Publication of Application
43975	43975-US-PAT	13/548864	2014/0016628	9137621	Granted
43977	43977-US-PAT	13/780509	2014/0242962	9049588	Granted
43983	43983-US-PAT	13/458595	2013/0286236	8994845	Granted
43987	43987-US-PAT	13/739652	2013/0182843	9083509	Granted
43987	43987-US-PRV	61/586061			Converted
43987-1	43987-1-US-CNT	15/225543	2016/0344775	9871827	Granted
43987-1	43987-1-US-PAT	13/739620	2013/0182840	9413530	Granted
43987-1	43987-1-US-PRV	61/586074			Converted
43987-1	43987-1-US-PRV[2]	61/622854			Converted
43987-2	43987-2-US-PAT	13/739671	2013/0182841	9264227	Granted
43987-2	43987-2-US-PRV	61/586068			Converted
43987-2	43987-2-US-PRV[2]	61/622869			Converted
43988	43988-US-PAT	13/477693	2013/0315288	8824535	Granted
43989	43989-US-CNT	13/524678	2013/0285913		Abandoned
43989	43989-US-CNT[2]	15/677868	2017/0344128		Abandoned
43989	43989-US-CNT[3]	15/783725	2018/0039335		Abandoned
43989	43989-US-PAT	13/459301	2013/0285916		Abandoned
44006	44006-US-CNT	14/968554	2016/0105266	9998268	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44006	44006-US-PAT	13/545525	2013/0235812	9215058	Granted
44006	44006-US-PRV	61/607436			Converted
44008	44008-US-PAT	13/422197	2013/0246329	9223497	Granted
44026	44026-US-PAT	13/838342	2014/0267081	9690403	Granted
44033	44033-US-PAT	13/424176	2013/0242860	9100969	Granted
44034	44034-US-PAT	13/791301	2013/0246798		Abandoned
44034	44034-US-PRV	61/611266			Converted
44034	44034-US-PRV[2]	61/759224			Converted
44034-1	44034-1-US-PAT	13/791378	2013/0246785	9219610	Granted
44034-1	44034-1-US-PRV	61/611368			Converted
44039	44039-US-CNT	13/552823	2013/0229438	8525855	Granted
44039	44039-US-CNT[2]	13/552840	2013/0229439	8520028	Granted
44039	44039-US-PAT	13/459490	2013/0229436	8520019	Granted
44039	44039-US-PRV	61/605417			Converted
44051	44051-US-PAT	13/556945	2014/0029213	9184493	Granted
44059	44059-US-PAT	13/459944	2013/0286018	8982141	Granted
44063	44063-US-PAT	13/572232	2013/0187868	9557913	Granted
44063	44063-US-PRV	61/588545			Converted
44067	44067-US-PAT	13/397413	2013/0212392	9698975	Granted
44073	44073-US-CIP	13/746753	2013/0191791	9619038	Granted
44073	44073-US-CNT	13/619213	2013/0187869		Abandoned
44073	44073-US-CNT[2]	13/826657	2013/0215061	8726198	Granted
44073	44073-US-PAT	13/356070	2013/0187863	9058168	Granted
44075	44075-US-PAT	13/592602	2014/0055500	8922599	Granted
44080	44080-US-CNT	13/563444	2013/0227478	8902184	Granted
44080	44080-US-PAT	13/404651	2013/0227495	8902182	Granted
44081	44081-US-PAT	13/541790	2014/0013395	9094830	Granted
44085	44085-US-PAT	13/459765	2013/0289999	8676579	Granted
44097	44097-US-CNT	14/925425	2016/0065333	10063351	Granted
44097	44097-US-PAT	13/545548	2013/0242882	9198181	Granted
44097	44097-US-PRV	61/612804			Converted
44100	44100-US-PAT	13/462788	2013/0293664	8913099	Granted
44105	44105-US-PAT	13/491675	2013/0331096	9100803	Granted
44111	44111-US-PAT	13/469626	2013/0300665	8884881	Granted
44117	44117-US-PAT	13/404906	2013/0226444	9161166	Granted
44119	44119-US-PAT	13/524332	2013/0335338	9158405	Granted
44126	44126-US-PAT	13/484668	2013/0324060	9264077	Granted
44129	44129-US-CNT	13/607282	2013/0254232	9009191	Granted
44147	44147-US-CNT	13/849254	2013/0222236	8994653	Granted
44147	44147-US-CNT[2]	14/742557	2015/0319280	9866667	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44147	44147-US-CNT[3]	15/864608	2018/0131801	10375220	Granted
44147	44147-US-PAT	13/684440	2013/0222231	9075451	Granted
44147	44147-US-PRV	61/603128			Converted
44152	44152-US-CNT	14/807722	2015/0333990	9660885	Granted
44152	44152-US-PAT	13/529467	2013/0218992	9124646	Granted
44152	44152-US-PRV	61/599701			Converted
44166	44166-US-PAT	13/404444	2013/0223005	8724300	Granted
44176	44176-US-PAT	13/592650	2014/0055326	8933866	Granted
44178	44178-US-PAT	13/416618	2013/0235808	9270409	Granted
44178	44178-US-PCT	14/402776	2015/0189546	11006462	Granted
44178	44178-US-PRV	61/649764			Converted
44191	44191-US-PAT	13/421526	2013/0079048	9144010	Granted
44199	44199-US-CNT	14/746453	2015/0288503	9843431	Granted
44199	44199-US-PAT	13/417978	2013/0235768	9065545	Granted
44202	44202-US-PAT	13/774199	2013/0235936	9363512	Granted
44202	44202-US-PRV	61/608248			Converted
44204	44204-US-PAT	13/460443	2013/0289996	9093076	Granted
44206	44206-US-PAT	13/584456	2014/0046801	9092784	Granted
44209	44209-US-CNT	14/488565	2015/0008112	9159509	Granted
44209	44209-US-PAT	13/561914	2014/0027254	8847092	Granted
44210	44210-US-CNT	14/469305	2014/0365211	9099084	Granted
44210	44210-US-CNT[2]	14/790875	2015/0302862	9536536	Granted
44210	44210-US-PAT	13/464411	2013/0297306	8843367	Granted
44216	44216-US-PAT	13/478333	2013/0314582	8749700	Granted
44220	44220-US-PAT	13/543342	2014/0009376	9263913	Granted
44221	44221-US-PAT	13/467617	2013/0300343		Abandoned
44223	44223-US-CNT	13/541477	2013/0286251	10003766	Granted
44223	44223-US-PAT	13/458448	2013/0286269	9041844	Granted
44224	44224-US-PAT	13/553896	2014/0022433	9131143	Granted
44229	44229-US-PAT	13/404985	2013/0222266		Abandoned
44231	44231-US-PAT	13/405107	2013/0222227	9513793	Granted
44238	44238-US-PAT	13/690001	2014/0154975	9100773	Granted
44242	44242-US-PAT	13/717280	2013/0215740	9077622	Granted
44242	44242-US-PRV	61/599476			Converted
44244	44244-US-CNT	14/546286	2015/0074754	9294470	Granted
44244	44244-US-PAT	13/727788	2013/0219455	8893219	Granted
44244	44244-US-PRV	61/600299			Converted
44248	44248-US-CNT	14/952574	2016/0080989	9820199	Granted
44248	44248-US-CNT[2]	15/811259	2018/0070271	10349321	Granted
44248	44248-US-PAT	13/469618	2013/0301607	9204299	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44250	44250-US-PAT	13/565443	2014/0040747	9122375	Granted
44256	44256-US-PAT	13/489737	2013/0332883		Abandoned
44263	44263-US-PAT	13/444612	2013/0271381	8957869	Granted
44264	44264-US-PAT	13/834573	2013/0314214	10103784	Granted
44264	44264-US-PRV	61/651412			Converted
44268	44268-US-PAT	13/405727	2013/0225137	8761743	Granted
44269	44269-US-PAT	13/405848	2013/0225138	8996070	Granted
44270	44270-US-PAT	13/405764	2013/0223604	9065920	Granted
44274	44274-US-PAT	13/723454	2013/0331063	9451455	Granted
44274	44274-US-PRV	61/658172			Converted
44276	44276-US-CNT	13/564312	2013/0222250	9239631	Granted
44276	44276-US-PAT	13/490255	2013/0222248	9335833	Granted
44276	44276-US-PRV	61/603323			Converted
44278	44278-US-CNT	14/501809	2015/0015788	9648268	Granted
44278	44278-US-PCT	13/583300	2013/0326552	8861858	Granted
44285	44285-US-CNT	15/409769	2017/0134563	10594852	Granted
44285	44285-US-PAT	13/405822	2013/0225230	9553966	Granted
44289	44289-US-PAT	13/467348	2013/0301689	8787990	Granted
44291	44291-US-PAT	13/729267	2013/0219173	9426145	Granted
44291	44291-US-PRV	61/600302			Converted
44302	44302-US-PAT	13/529153	2013/0342159	9041347	Granted
44306	44306-US-PAT	13/757897	2014/0217853	9543861	Granted
44310	44310-US-PAT	13/468192	2013/0304847	9009260	Granted
44315	44315-US-CNT	14/251401	2014/0220979	9277475	Granted
44315	44315-US-PAT	13/422161	2013/0244664	8744449	Granted
44320	44320-US-CNT	13/563943	2013/0222256	8659569	Granted
44320	44320-US-PAT	13/485723	2013/0222255		Abandoned
44320	44320-US-PRV	61/603094			Converted
44324	44324-US-PAT	13/762875	2014/0225574	9337669	Granted
44327	44327-US-CNT	14/821364	2015/0348568	9503813	Granted
44327	44327-US-PAT	13/768108	2013/0223645	9137600	Granted
44327	44327-US-PRV	61/599762			Converted
44328	44328-US-CNT	14/504068	2015/0022621	9183657	Granted
44328	44328-US-PAT	13/591574	2014/0055475	8878862	Granted
44329	44329-US-PAT	13/593886	2014/0055363	9285837	Granted
44333	44333-US-PAT	13/405660	2013/0222268		Abandoned
44334	44334-US-PAT	13/405680	2013/0222269	10142451	Granted
44336	44336-US-PAT	13/538134	2014/0003653	10013623	Granted
44338	44338-US-PAT	13/609404	2014/0075515	9276917	Granted
44347	44347-US-CNT	14/635876	2015/0169031	9423856	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44347	44347-US-PAT	13/546397	2014/0019743	8972762	Granted
44353	44353-US-PAT	13/525576	2013/0222249	9910588	Granted
44353	44353-US-PRV	61/603043			Converted
44354	44354-US-PAT	13/485468	2013/0321280	8902170	Granted
44356	44356-US-CNT	13/541365	2013/0222666	8760557	Granted
44356	44356-US-PAT	13/405040	2013/0222663	8675113	Granted
44365	44365-US-PAT	13/780674	2013/0329694	10560882	Granted
44365	44365-US-PRV	61/657483			Converted
44365-1	44365-1-US-PAT	13/780911	2013/0329583	9161281	Granted
44370	44370-US-PAT	13/770477	2014/0235173	9148725	Granted
44383	44383-US-PAT	13/446393	2013/0235925	9036710	Granted
44383	44383-US-PRV	61/608256			Converted
44393	44393-US-PAT	13/494339	2013/0331075	10231075	Granted
44397	44397-US-PAT	13/458711	2013/0286573	8954877	Granted
44408	44408-US-PAT	13/608251	2014/0071384		Abandoned
44410	44410-US-PAT	13/525506	2013/0339564	9411756	Granted
44412	44412-US-PAT	13/667870	2014/0129626	9807575	Granted
44416	44416-US-PAT	13/425088	2013/0242813	9007963	Granted
44416	44416-US-PRV	61/612159			Converted
44416-2	44416-2-US-PAT	13/425341	2013/0242815	8923255	Granted
44416-2	44416-2-US-PRV	61/612186			Converted
44416-3	44416-3-US-PAT	13/425299	2013/0242814	8923196	Granted
44416-3	44416-3-US-PRV	61/612182			Converted
44440	44440-US-PAT	13/423210	2013/0242859	8958422	Granted
44443	44443-US-PAT	13/420753	2013/0245982	9279680	Granted
44452	44452-US-PAT	13/440233	2013/0268641	8943194	Granted
44454	44454-US-PAT	13/757152	2014/0218183	9024738	Granted
44473	44473-US-PAT	13/537398	2014/0003474	8958462	Granted
44473	44473-US-PAT[2]	13/537429	2014/0003475	8724724	Granted
44476	44476-US-CNT	15/012924	2016/0147004	9709722	Granted
44476	44476-US-PAT	13/548381	2014/0016354	9285532	Granted
44482	44482-US-PAT	13/787479	2013/0301550	10178651	Granted
44482	44482-US-PRV	61/646072			Converted
44485	44485-US-PAT	13/481616	2013/0316736	9161170	Granted
44488	44488-US-PAT	13/485046	2013/0320966	9030192	Granted
44495	44495-US-PAT	13/484913	2013/0320965	8928309	Granted
44499	44499-US-PAT	13/530642	2013/0342437	8913008	Granted
44507	44507-US-PAT	13/448212	2013/0272169	9521669	Granted
44529	44529-US-PAT	13/690996	2014/0156998	9727720	Granted
44529-1	44529-1-US-CNT	15/158035	2016/0261417		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44529-1	44529-1-US-PAT	13/691101	2014/0153714	9369290	Granted
44537	44537-US-PAT	13/544517	2014/0009499	10410605	Granted
44539	44539-US-PAT	13/470238	2013/0301541	8989113	Granted
44547	44547-US-PAT	13/544021	2014/0009498	10490166	Granted
44553	44553-US-PAT	13/592636	2014/0056442	9059668	Granted
44556	44556-US-PAT	13/542242	2014/0009172	9363350	Granted
44557	44557-US-PAT	13/458382	2013/0290713	9049022	Granted
44557-1	44557-1-US-CNT	14/477073	2014/0372765	9698993	Granted
44557-1	44557-1-US-PAT	13/458357	2013/0290712	8850199	Granted
44559	44559-US-PAT	13/556370	2014/0028633	8913042	Granted
44562	44562-US-PAT	13/493678	2013/0328908	8878867	Granted
44563	44563-US-PAT	13/543534	2014/0009490	9207840	Granted
44564	44564-US-CIP	11/529246	2007/0053282	7778337	Granted
44564	44564-US-CNT	11/819690	2007/0253324	7545734	Granted
44564	44564-US-CNT[10]	14/520080	2015/0085820	9154281	Granted
44564	44564-US-CNT[11]	14/608497	2015/0180630	9313065	Granted
44564	44564-US-CNT[12]	14/832571	2016/0036611	9503300	Granted
44564	44564-US-CNT[13]	15/080275	2016/0226691	9780984	Granted
44564	44564-US-CNT[14]	15/694664	2018/0062896	10116478	Granted
44564	44564-US-CNT[15]	16/173901	2019/0123949	10693693	Granted
44564	44564-US-CNT[2]	12/468624	2009/0225891	8254246	Granted
44564	44564-US-CNT[3]	12/830791	2010/0271930	7949061	Granted
44564	44564-US-CNT[4]	13/108443	2011/0216808	8325836	Granted
44564	44564-US-CNT[5]	13/586660	2012/0307930	8406118	Granted
44564	44564-US-CNT[6]	13/616438	2013/0010808	8774223	Granted
44564	44564-US-CNT[7]	13/617051	2013/0010887	8462872	Granted
44564	44564-US-CNT[8]	13/765523	2013/0223553	8964523	Granted
44564	44564-US-CNT[9]	14/249127	2014/0314183	8971169	Granted
44564	44564-US-DIV[4]	13/617175	2013/0016693	8891481	Granted
44564	44564-US-PAT	10/038883	2003/0072254	7248559	Granted
44567	44567-US-CNT	13/251394	2012/0020424	8284852	Granted
44567	44567-US-CNT[2]	13/608234	2013/0003791	8611454	Granted
44567	44567-US-CNT[3]	13/971534	2013/0336147	9301174	Granted
44567	44567-US-CNT[4]	14/832758	2015/0365148	9538408	Granted
44567	44567-US-CNT[5]	15/360600	2017/0079052	9918328	Granted
44567	44567-US-CNT[6]	15/881575	2018/0167952	10306658	Granted
44567	44567-US-CNT[7]	16/384478	2019/0246405	10856305	Granted
44567	44567-US-CNT[8]	17/097907	2021/0084665		Allowed (Notice of Allowance)
44567	44567-US-PCT	12/089938	2009/0316802	8054898	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44570	44570-US-PAT	10/321999	2004/0114618	7508798	Granted
44571	44571-US-CNT	12/704850	2010/0211847	8024641	Abandoned
44571	44571-US-CNT[2]	13/156942	2011/0307755	8301975	Reissued (Inactive Parent)
44571	44571-US-CNT[3]	13/619420	2013/0013983		Abandoned
44571	44571-US-CNT[4]	16/938158			Filing
44571	44571-US-DIV[2]	15/838188		RE48212	Granted
44571	44571-US-PCT	11/665171	2009/0259915	7996746	Granted
44571	44571-US-REI[2]	14/527483		RE46692	Granted
44572	44572-US-PAT	09/842128	2002/0086708	6996418	Granted
44577	44577-US-CNT	13/103516	2011/0211462	8867330	Granted
44577	44577-US-CNT[2]	13/620747	2013/0114444	8953481	Granted
44577	44577-US-CNT[3]	14/594519	2015/0131629	9432162	Granted
44577	44577-US-CNT[4]	15/219989	2016/0338090	9992792	Granted
44577	44577-US-CNT[5]	15/970467	2018/0255564	10356805	Granted
44577	44577-US-PAT	11/336371	2007/0171808	7940640	Granted
44580	44580-US-PAT	09/598565		6819652	Granted
44581	44581-US-CPA	09/688557		7406299	Granted
44585	44585-US-PAT	09/196461		6347385	Expired
44590	44590-US-PAT	09/738204	2002/0077149	6721571	Granted
44592	44592-US-CNT	13/223907	2011/0319126	8731600	Granted
44592	44592-US-CNT[2]	13/619348	2013/0017857	8948807	Granted
44592	44592-US-PAT	12/336844	2010/0035645	8023989	Granted
44595	44595-US-PCT	10/399859		7529305	Granted
44596	44596-US-CNT	13/442038	2012/0188946	8532082	Granted
44596	44596-US-PCT	11/996463	2008/0219235	8169994	Granted
44597	44597-US-PAT	10/263268	2004/0066866	7394860	Granted
44600	44600-US-PAT	10/736699		7349665	Granted
44601	44601-US-PAT	09/687486		6922404	Granted
44602	44602-US-PAT	09/753226		7280495	Granted
44603	44603-US-PAT	09/753124	2002/0087643	6871214	Granted
44607	44607-US-CNT	10/109915	2003/0043887	7149239	Granted
44607	44607-US-PAT	09/825058			Third Party Patent
44611	44611-US-PAT	09/764663	2001/0034236	6804521	Granted
44612	44612-US-PAT	10/736501		7206608	Granted
44621	44621-US-PCT	09/853156	2002/0039391	6961371	Granted
44623	44623-US-CNT	12/764813	2010/0202502	8422585	Granted
44623	44623-US-CNT[2]	13/615341	2013/0003795	9356735	Granted
44623	44623-US-CNT[3]	13/616182	2013/0003885	9276657	Granted
44623	44623-US-PCT	11/547187	2009/0080566	8411787	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44627	44627-US-PAT	10/794787	2004/0240424	7327716	Granted
44630	44630-US-PAT	09/611968		6839876	Granted
44638	44638-US-PAT	09/989599	2002/0114323	7167466	Granted
44641	44641-US-PAT	10/645254	2004/0127175	7369814	Granted
44643	44643-US-CIP	10/666078		7492728	Granted
44644	44644-US-PCT	10/168708	2002/0183075	7184776	Granted
44645	44645-US-PAT	10/095729	2002/0150064	7197050	Granted
44646	44646-US-CNT	12/404687	2009/0176531	8401491	Abandoned
44646	44646-US-CNT[2]	13/620639	2013/0012267	8571543	Granted
44646	44646-US-PAT	11/463806	2007/0077967	7519331	Abandoned
44648	44648-US-CNT	13/617109	2013/0064076		Abandoned
44648	44648-US-CNT[2]	13/617258	2013/0010777		Abandoned
44648	44648-US-DIV	12/624964	2010/0074105	8385189	Granted
44648	44648-US-DIV[2]	12/624986			Abandoned
44648	44648-US-PAT	10/747942		7646752	Granted
44650	44650-US-CNT	13/110427		8213877	Granted
44650	44650-US-CNT[2]	13/620495	2013/0017795	8498584	Granted
44650	44650-US-CNT[3]	13/928117	2013/0295860	8655301	Granted
44650	44650-US-DIV	12/717026		7970354	Granted
44650	44650-US-DIV[2]	13/540263	2012/0269102	8351889	Granted
44650	44650-US-PAT	11/615450		7702295	Granted
44651	44651-US-PAT	11/300508	2007/0140101	7583583	Granted
44653	44653-US-CNT	13/052752		8099058	Granted
44653	44653-US-CNT[2]	13/325557		8489033	Granted
44653	44653-US-CNT[3]	13/620738	2013/0022092	8620226	Granted
44653	44653-US-PAT	11/963385		7929917	Granted
44654	44654-US-PAT	09/811743		7031453	Granted
44656	44656-US-PAT	10/848438		7383057	Granted
44659	44659-US-PAT	10/675770		6894559	Granted
44661	44661-US-PCT	11/991301	2009/0129388	7817635	Granted
44664	44664-US-CNT	13/615317	2013/0010757	8879682	Granted
44664	44664-US-PCT	12/919034	2011/0007856	8422616	Granted
44666	44666-US-CNT	13/620617	2013/0095750		Abandoned
44666	44666-US-PCT	12/522870	2010/0248619	8843058	Granted
44668	44668-US-CNT	13/616612	2013/0065590	8780865	Granted
44668	44668-US-PCT	12/670476	2010/0226267	8797997	Granted
44669	44669-US-CNT	13/620087	2013/0010680	9225415	Granted
44669	44669-US-CNT[2]	13/620435	2013/0039259	8743773	Granted
44669	44669-US-PAT	12/197767	2009/0053994	8320826	Granted
44670	44670-US-CNT	13/406176	2012/0155376	8509089	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44670	44670-US-CNT[2]	13/619745	2013/0010601	8687499	Granted
44670	44670-US-PAT	12/347002	2009/0185492	8144597	Granted
44671	44671-US-CNT	13/291481	2012/0057654	8238473	Granted
44671	44671-US-CNT[2]	13/541348	2012/0275543	8605818	Granted
44671	44671-US-CNT[3]	13/620743	2013/0010894	8670502	Granted
44671	44671-US-PAT	12/337444	2010/0150256	8068558	Granted
44672	44672-US-PAT	12/275621	2009/0131056	8554228	Granted
44674	44674-US-CNT	13/425884	2012/0178472	8370090	Granted
44674	44674-US-CNT[2]	13/604895	2012/0330603	8565787	Granted
44674	44674-US-PAT	12/479970	2010/0311436	8170815	Granted
44675	44675-US-CNT	13/617831	2013/0064223	8582534	Granted
44675	44675-US-PCT	12/681358	2010/0272061	8576796	Granted
44676	44676-US-PCT	12/922933	2011/0007711	8477729	Granted
44679	44679-US-CNT	13/565188	2012/0296738	8849256	Granted
44679	44679-US-CNT[2]	13/619267	2013/0013801	8649778	Granted
44679	44679-US-CNT[3]	13/619404	2013/0012176	8649779	Granted
44679	44679-US-CNT[4]	13/619701	2013/0013772	9253268	Granted
44679	44679-US-PAT	12/274558	2010/0124911	8244224	Granted
44680	44680-US-CNT	13/072285	2011/0169577	8884706	Granted
44680	44680-US-CNT[2]	13/618387	2013/0046497	8847690	Granted
44680	44680-US-PAT	12/497980	2011/0001567	7915962	Granted
44682	44682-US-CNT	13/616159	2013/0005283	8509712	Abandoned
44682	44682-US-CNT[2]	13/933221	2013/0285742	8909176	Abandoned
44682	44682-US-PAT	12/252098	2010/0093290	8331879	Abandoned
44683	44683-US-CNT	13/444597	2012/0256687	8412133	Granted
44683	44683-US-CNT[2]	13/620739	2013/0009702	8494463	Granted
44683	44683-US-CNT[3]	13/908212	2013/0257530	8843089	Granted
44683	44683-US-PAT	12/436966	2010/0283540	8170508	Granted
44684	44684-US-CNT	13/618685	2013/0010644	8848613	Granted
44684	44684-US-PAT	12/221951	2009/0052350	8687597	Granted
44685	44685-US-CNT	13/620585	2013/0009821		Abandoned
44685	44685-US-PAT	12/506692	2011/0018766	8519889	Granted
44687	44687-US-PAT	12/259586	2010/0102964	8217785	Granted
44688	44688-US-CNT	13/619398	2013/0015970		Abandoned
44688	44688-US-PAT	12/328206	2010/0141430		Abandoned
44689	44689-US-PCT	12/602721	2010/0173639	8982779	Granted
44690	44690-US-CNT	13/620634	2013/0012119	9071322	Granted
44690	44690-US-PCT	13/058708	2011/0306291	8737912	Granted
44692	44692-US-CIP	12/875516	2011/0188443	9397775	Granted
44692	44692-US-CNT	13/617629	2013/0070662		Abandoned

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44692	44692-US-PAT	12/806204			Abandoned
44696	44696-US-PAT	09/670152		7203598	Granted
44698	44698-US-PAT	09/656883		6628954	Expired
44700	44700-US-PAT	10/262393	2004/0062383	7555108	Granted
44702	44702-US-PAT	09/616310		6701149	Expired
44703	44703-US-PAT	09/465177		6563919	Expired
44706	44706-US-PAT	10/403109	2003/0236909	7313115	Granted
44715	44715-US-CNT	12/387621	2009/0225723	8019343	Granted
44715	44715-US-CNT[2]	13/194674	2011/0286432	8447305	Granted
44715	44715-US-CNT[3]	13/620343	2013/0072197	8811997	Granted
44715	44715-US-PAT	11/295232		7546124	Granted
44721	44721-US-PAT	09/671736		7197029	Granted
44723	44723-US-PAT	10/360485		7200407	Granted
44724	44724-US-PAT	11/402668		7606541	Granted
44725	44725-US-PAT	11/701657		7773571	Granted
44726	44726-US-CNT	13/616847	2013/0064171		Abandoned
44726	44726-US-PCT	12/299259	2009/0073916	8300570	Granted
44727	44727-US-CNT	13/618620	2013/0010604		Abandoned
44727	44727-US-CNT[2]	13/619849	2013/0010697		Abandoned
44727	44727-US-PCT	12/375499	2009/0252065	8885520	Granted
44727	44727-US-PCT[2]	12/375478	2009/0303895		Abandoned
44728	44728-US-PAT	10/745886	2005/0135330	7643467	Granted
44729	44729-US-PAT	09/693128		6871081	Granted
44730	44730-US-CNT	13/620744	2013/0012200	10110975	Granted
44730	44730-US-PAT	11/452069	2006/0280169	8542670	Granted
44731	44731-US-CNT	13/620745	2013/0010785	9161101	Granted
44731	44731-US-PAT	11/451722	2006/0285537	8515432	Granted
44732	44732-US-CNT	13/620742	2013/0022039	10462191	Granted
44732	44732-US-PAT	11/440165	2007/0041367		Abandoned
44733	44733-US-CNT	13/617266		9451467	Granted
44733	44733-US-PCT	12/282196	2009/0061778	8538443	Granted
44734	44734-US-DIV	13/620411	2013/0029673	8452335	Granted
44734	44734-US-PAT	11/641031	2008/0144528	8452275	Granted
44737	44737-US-CNT	14/049074			Abandoned
44737	44737-US-PCT	10/599944	2007/0153766		Abandoned
44739	44739-US-CNT	13/620423	2013/0010698		Abandoned
44739	44739-US-CNT[2]	14/726032	2015/0373634	10212558	Granted
44739	44739-US-PCT	11/718006	2009/0185522		Abandoned
44740	44740-US-CNT	13/615211	2013/0054959	8954727	Granted
44740	44740-US-PAT	11/787498	2008/0072034	8825998	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44741	44741-US-CNT	13/615279	2013/0003687		Abandoned
44741	44741-US-PAT	12/341790		8780728	Abandoned
44742	44742-US-CNT	13/456867	2012/0207118	8611203	Granted
44742	44742-US-PAT	12/266772		8189455	Granted
44743	44743-US-CIP	12/887099	2011/0206157		Abandoned
44743	44743-US-PAT	13/068836	2012/0087442	8315225	Granted
44747	44747-US-PAT	12/342532		8035461	Granted
44751	44751-US-CNT	13/615262	2013/0028210		Abandoned
44751	44751-US-PAT	12/163165		8462737	Granted
44752	44752-US-CNT	13/620680	2013/0010891	8537773	Granted
44752	44752-US-CNT[2]	13/932754	2013/0294421	9237458	Granted
44752	44752-US-CNT[3]	14/954520	2016/0088644	9668269	Granted
44752	44752-US-PAT	12/267072		8331308	Granted
44753	44753-US-CIP	12/923520	2011/0299617		Abandoned
44753	44753-US-CNT	13/620686	2013/0010893		Abandoned
44753	44753-US-CNT[2]	13/620741	2013/0010840	8488728	Granted
44753	44753-US-PAT	12/806209	2012/0039419	8340235	Granted
44755	44755-US-CIP	12/887004	2011/0194540	10615851	Granted
44755	44755-US-CNT	13/620445	2013/0016662	8767682	Granted
44755	44755-US-CNT[2]	13/620503	2013/0029677		Abandoned
44755	44755-US-CNT[3]	16/841326	2020/0304174		Publication of Application
44755	44755-US-PAT	13/068837	2012/0087335	8693442	Granted
44758	44758-US-CIP	12/874853	2012/0057524	8711773	Granted
44758	44758-US-CNT	13/620418	2013/0016679	8971269	Granted
44758	44758-US-CNT[2]	13/618404	2013/0010694	8711781	Granted
44758	44758-US-CNT[3]	14/263623	2014/0233502	9100964	Granted
44758	44758-US-CNT[4]	14/731059	2015/0305017	9693342	Granted
44758	44758-US-CNT[5]	15/596166	2017/0265185	10142974	Granted
44758	44758-US-CNT[6]	16/182525	2019/0090233	10694509	Granted
44758	44758-US-PAT	12/806193	2013/0182685	8761151	Granted
44759	44759-US-CIP	12/887127	2011/0205955		Abandoned
44759	44759-US-CNT[2]	13/620623	2013/0010681	8913619	Granted
44759	44759-US-CNT[3]	13/620385	2013/0070583	9622229	Granted
44759	44759-US-PAT	12/806218	2012/0087296	8472366	Granted
44761	44761-US-CIP	12/801978	2011/0080893	8315229	Granted
44761	44761-US-CNT	13/619762	2013/0010760		Abandoned
44761	44761-US-CNT[2]	13/620030	2013/0010761		Abandoned
44761	44761-US-PAT	12/806185	2011/0149904	8811339	Granted
44761	44761-US-PRV	61/078505			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
44763	44763-US-PCT	13/255358	2012/0020434	9344243	Granted
44763	44763-US-PRV	61/160452			Converted
44763	44763-US-PRV[2]	61/244185			Converted
44771	44771-US-CIP	11/454824	2007/0094580	7747934	Granted
44772	44772-US-PAT	10/793056	2004/0229604	7551588	Granted
44772-1	44772-1-US-CIP	10/800119	2004/0223455	7142548	Granted
44773	44773-US-CIP	11/393622	2006/0242534	7752521	Granted
44773	44773-US-CNT	12/796453	2010/0251065	7917829	Granted
44773	44773-US-CNT[2]	12/987729	2011/0107177	8099646	Granted
44773	44773-US-CNT[3]	13/346155	2012/0117440	8291289	Granted
44773	44773-US-CNT[4]	13/619380	2013/0013973	8583980	Granted
44775	44775-US-CNT	13/620671	2013/0010749	8831670	Granted
44775	44775-US-PAT	12/336901	2010/0035653	8825100	Granted
44779	44779-US-PCT	14/397380	2015/0081369	10475000	Granted
44780	44780-US-PCT	14/396913	2015/0143303	9864483	Granted
44786	44786-US-PAT	13/470009	2013/0303153	8755791	Granted
44828	44828-US-CNT	14/969048	2016/0100061	10135991	Granted
44828	44828-US-CNT[2]	15/618791	2017/0279966	9998604	Granted
44828	44828-US-CNT[3]	16/194770	2019/0089837	10715671	Granted
44828	44828-US-PAT	13/534190	2014/0003597	9247068	Granted
44832	44832-US-PAT	13/590299	2014/0057563	9332587	Granted
44834	44834-US-PAT	13/460258	2013/0285931	9310922	Granted
44839	44839-US-PAT	13/456631	2013/0287230	9300263	Granted
44851	44851-US-CNT	13/564697	2013/0285935	9195386	Granted
44851	44851-US-CNT[2]	15/058915	2016/0179348	10331313	Granted
44851	44851-US-PAT	13/459761	2013/0285928	9292192	Granted
44861	44861-US-PAT	13/490068	2013/0331141	9060329	Granted
44989	44989-US-PAT	13/601393	2014/0065955	9042815	Granted
44991	44991-US-PAT	13/491877	2013/0331027		Abandoned
45006	45006-US-PAT	13/603543	2013/0298036		Abandoned
45006	45006-US-PRV	61/641051			Converted
45013	45013-US-CNT	14/168184	2014/0149928	9201566	Granted
45013	45013-US-PAT	13/661328	2013/0318471	8671361	Granted
45013	45013-US-PRV	61/651187			Converted
45034	45034-US-PAT	13/622053	2014/0078116	9013455	Granted
45038	45038-US-PAT	13/471144	2013/0301509	8750181	Granted
45038-1	45038-1-US-PAT	13/566766	2014/0036676	9723523	Granted
45044	45044-US-PAT	13/572401	2014/0043247	9128712	Granted
45048	45048-US-PAT	13/571402	2014/0047345		Abandoned
45051	45051-US-CNT	14/746286	2015/0286380	10489031	Granted

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45051	45051-US-PAT	13/572070	2014/0047380	9075460	Granted
45058	45058-US-PAT	13/482405	2013/0321283	9652141	Granted
45063	45063-US-PAT	13/467743	2013/0273887	9319951	Granted
45063	45063-US-PRV	61/623977			Converted
45083	45083-US-PAT	13/461154	2013/0298074	9491260	Granted
45091	45091-US-DEC	29/418619		D702240	Granted
45091	45091-US-DES	29/418309		D703208	Granted
45091	45091-US-PRV	61/624219			Converted
45141	45141-US-PRV	61/666608			Converted
45144	45144-US-CNT	15/180911	2016/0373452	11032283	Granted
45144	45144-US-PAT	13/529509	2013/0346606	9369466	Granted
45145	45145-US-PAT	13/713313	2014/0171078	9167512	Granted
45152	45152-US-PAT	13/743264	2014/0198073	9335922	Granted
45162	45162-US-PAT	13/743253	2014/0198058	9323380	Granted
45163	45163-US-PAT	13/667234	2014/0126427	9167616	Granted
45166	45166-US-PAT	13/852509	2014/0298415		Abandoned
45167	45167-US-PAT	13/742651	2013/0282564		Abandoned
45167	45167-US-PRV	61/636643			Converted
45182	45182-US-PAT	13/833326	2014/0274033	9204243	Granted
45187	45187-US-PAT	13/793613	2014/0215550	9275210	Granted
45187	45187-US-PRV	61/758139			Converted
45192	45192-US-PAT	13/554784	2014/0026099	9256351	Granted
45195	45195-US-CIP	13/548469	2013/0120267	9652448	Granted
45200	45200-US-PAT	13/584119	2014/0047005	9607313	Granted
45206	45206-US-PAT	13/541701	2014/0010376	9112461	Granted
45206-1	45206-1-US-PAT	13/541704	2014/0009337	9170289	Granted
45213	45213-US-PAT	13/481171	2013/0314331	9207860	Granted
45218	45218-US-PAT	13/599230	2014/0065997	8995948	Granted
45220	45220-US-PCT	13/634914	2014/0043209	9373302	Granted
45227	45227-US-PAT	13/531097	2013/0344804		Abandoned
45231	45231-US-PAT	13/538761	2014/0003356	10111248	Granted
45250	45250-US-PAT	13/552753	2014/0024410		Abandoned
45261	45261-US-PAT	13/628527	2014/0089526	9450784	Granted
45267	45267-US-PAT	13/472232	2013/0307681		Abandoned
45268	45268-US-PAT	13/472295	2013/0311167	9015034	Granted
45275	45275-US-CNT	15/050625	2016/0173901	9578347	Granted
45275	45275-US-CNT[2]	15/408790	2017/0127066	9906802	Granted
45275	45275-US-PAT	13/524117	2013/0336409	9294779	Granted
45277	45277-US-CNT	14/921299	2016/0044496	9572016	Granted
45277	45277-US-PAT	13/543099	2014/0011541	9173085	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
45294	45294-US-CNT	15/250048	2016/0366432	10/595029	Granted
45294	45294-US-PAT	13/524583	2013/0336410	9462286	Granted
45303	45303-US-CNT	17/072957	2021/0037374		Allowed (Notice of Allowance)
45303	45303-US-PAT	13/547880	2014/0016612	10812964	Granted
45305	45305-US-PAT	13/524686	2013/0337781	8805340	Granted
45312	45312-US-PAT	13/547648	2014/0015718	8988288	Granted
45312	45312-US-PAT[2]	13/940071	2014/0015720		Abandoned
45326	45326-US-PAT	13/601864	2014/0067372	9524290	Granted
45329	45329-US-PAT	13/601898	2014/0062886	9063653	Granted
45330	45330-US-PAT	13/571473	2014/0046943	9411876	Granted
45334	45334-US-PAT	13/542396	2014/0013254	9916060	Granted
45340	45340-US-PAT	13/565904	2014/0038663	8798670	Granted
45344	45344-US-PAT	13/630675	2014/0092026	9229588	Granted
45356	45356-US-PCT	13/635135	2014/0047537	8898770	Granted
45364	45364-US-PAT	13/742003	2014/0198432	9101086	Granted
45367	45367-US-PAT	13/531164	2013/0342544	8937556	Granted
45369	45369-US-PAT	13/608879	2014/0071116	9576397	Granted
45371	45371-US-PAT	13/564560	2014/0041044	8990955	Granted
45390	45390-US-CNT	13/784157	2013/0316647	8712325	Granted
45390	45390-US-CNT[2]	14/215267	2014/0198037		Abandoned
45390	45390-US-PAT	13/628583	2013/0314334		Abandoned
45390	45390-US-PRV	61/651423			Converted
45391	45391-US-PAT	13/591863	2014/0057558	9002267	Granted
45408	45408-US-PAT	13/656298	2014/0112487	9131041	Granted
45415	45415-US-PAT	13/551778	2014/0025750	8914453	Granted
45429	45429-US-CNT	15/463768	2017/0208577	9930645	Granted
45429	45429-US-CNT[2]	15/935911	2018/0220408	10420081	Granted
45429	45429-US-CNT[3]	16/572565	2020/0015216		Allowed (Notice of Allowance)
45429	45429-US-PAT	13/725174	2014/0177540	9635657	Granted
45429	45429-US-PAT[2]	13/725562	2014/0177542	9295044	Granted
45431	45431-US-PAT	13/781469	2014/0241262		Abandoned
45444	45444-US-CNT	15/082550	2016/0209932	9772691	Granted
45444	45444-US-PAT	13/758510	2014/0218297	9298275	Granted
45447	45447-US-PAT	13/541721	2014/0012528	9632179	Granted
45454	45454-US-CIP	14/490985	2015/0002537	9508119	Granted
45454	45454-US-PAT	13/548391	2014/0015854		Abandoned
45466	45466-US-PAT	13/571083	2014/0043967	8995260	Granted
45466-1	45466-1-US-PAT	13/571089	2014/0043968	8976648	Granted
45468-1	45468-1-US-PAT	13/592760	2014/0057552	8909134	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
45469	45469-US-PAT	13/592729	2014/0057551	8923757	Granted
45471	45471-US-PAT	13/536686	2014/0006786	9088408	Granted
45473	45473-US-CNT	13/744946	2014/0038643	9055398	Granted
45473	45473-US-PAT	13/566124	2014/0038635	9094788	Granted
45474	45474-US-CNT	13/745058	2014/0038644	8954093	Granted
45474	45474-US-PAT	13/566480	2014/0038573	9173055	Granted
45475	45475-US-CNT	13/745123	2014/0068451		Abandoned
45475	45475-US-PAT	13/600864	2014/0066106	9049547	Granted
45480	45480-US-PAT	13/591898	2014/0059346	9094471	Granted
45481	45481-US-CNT	14/603637	2015/0139424	10057053	Granted
45481	45481-US-CNT[2]	15/789399	2018/0109374	10187202	Granted
45481	45481-US-PAT	13/536747	2014/0004824	8971851	Granted
45486	45486-US-PAT	13/534948	2014/0003604	8948386	Granted
45492	45492-US-PAT	13/621557	2014/0079223	9165547	Granted
45492-1	45492-1-US-PAT	13/621598	2014/0079224	9286879	Granted
45492-2	45492-2-US-PAT	13/621639	2014/0079242	9078055	Granted
45498	45498-US-PAT	13/617020	2014/0079276	8958593	Granted
45504	45504-US-CNT	13/911512	2014/0040769		Abandoned
45504	45504-US-PAT	13/706782	2014/0040768	9747003	Granted
45504	45504-US-PRV	61/678388			Converted
45504-1	45504-1-US-PAT	13/706871	2014/0040756	9665178	Granted
45504-1	45504-1-US-PRV	61/678391			Converted
45508	45508-US-PCT	14/404173	2016/0147815	9684688	Granted
45510	45510-US-CIP	13/569000	2013/0125037	9715489	Granted
45512	45512-US-PAT	13/562918	2014/0035882	9182840	Granted
45512-1	45512-1-US-CIP	13/803384	2014/0035885	8957878	Granted
45512-2	45512-2-US-CIP	13/803440	2014/0035886		Abandoned
45516	45516-US-PAT	13/722341	2014/0177869	9258645	Granted
45518	45518-US-PAT	13/793810	2014/0146964	9917695	Granted
45518	45518-US-PRV	61/731304			Converted
45518	45518-US-PRV[2]	61/758168			Converted
45533	45533-US-PAT	13/749389	2014/0203944	9070273	Granted
45555	45555-US-PAT	13/612241	2014/0072312	9032130	Granted
45566	45566-US-PAT	13/601736	2014/0063067		Abandoned
45568	45568-US-CNT	14/887315	2016/0042164	9507925	Granted
45568	45568-US-CNT[2]	15/362430	2017/0083692	10078742	Granted
45568	45568-US-CNT[3]	15/960331	2018/0247034	10515198	Granted
45568	45568-US-CNT[4]	16/704070	2020/0110860	11170082	Granted
45568	45568-US-PAT	13/838587	2014/0137191	9166962	Granted
45568	45568-US-PRV	61/726257			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
45575	45575-US-CNT	14/990585	2016/0119084	9520967	Granted
45575	45575-US-PAT	13/764718	2014/0036749	9258741	Granted
45575	45575-US-PRV	61/679676			Converted
45576	45576-US-PAT	13/625234	2014/0086050	9247548	Granted
45577	45577-US-CNT	14/885048	2016/0044476	10547987	Granted
45577	45577-US-PAT	13/562885	2014/0038568	9191794	Granted
45580	45580-US-PAT	13/565955	2014/0038532	8954019	Granted
45591	45591-US-PAT	13/742013	2014/0196878	10506719	Granted
45595	45595-US-PAT	13/673157		8666394	Granted
45611	45611-US-PAT	13/622834	2014/0078382	8836852	Granted
45612	45612-US-PAT	13/535392	2014/0003533	9088769	Granted
45614	45614-US-CIP	14/036448	2014/0090034		Abandoned
45614	45614-US-PAT	13/626101	2014/0089547	9445266	Granted
45615	45615-US-PAT	13/568735	2014/0047534	8997203	Granted
45616	45616-US-PAT	13/656891	2014/0115653	9367705	Granted
45625	45625-US-PAT	13/753126	2014/0211938	8971528	Granted
45626	45626-US-PAT	14/271718	2014/0341192	9515771	Granted
45635	45635-US-PAT	13/625411	2014/0087785	9219563	Granted
45638	45638-US-PAT	13/645628	2014/0098197	9148651	Granted
45644	45644-US-PAT	13/673284	2014/0133127	9601285	Granted
45646	45646-US-PAT	13/676495	2014/0133322	9281572	Granted
45647	45647-US-PAT	13/684325	2014/0146304	9012846	Granted
45648	45648-US-PAT	13/632450	2014/0095562	9020999	Granted
45658	45658-US-PAT	13/569974	2014/0044104	9184889	Granted
45658-1	45658-1-US-CNT	15/185847	2016/0301508	10075273	Granted
45658-1	45658-1-US-PAT	13/569985	2014/0044054	9402256	Granted
45665	45665-US-PAT	13/633179	2014/0092126	9348486	Granted
45667	45667-US-CNT	14/500116	2015/0087334	9271119	Granted
45667	45667-US-PAT	13/628571	2014/0087753	8849305	Granted
45668	45668-US-PAT	13/781047	2014/0244191		Abandoned
45675	45675-US-PAT	13/614929	2014/0071168	9330437	Granted
45676	45676-US-PAT	13/673245	2014/0131181	9082567	Granted
45677	45677-US-CNT	15/632051	2017/0295546	10979977	Granted
45677	45677-US-PAT	13/801669	2014/0018085	9693306	Granted
45677	45677-US-PRV	61/670510			Converted
45682	45682-US-PAT	13/693566	2014/0152417	8948694	Granted
45683	45683-US-PAT	13/957123	2015/0038074	9287935	Granted
45688	45688-US-PCT	14/433450	2015/0247745	10197422	Granted
45689	45689-US-PAT	13/842805	2014/0071904	9173174	Granted
45689	45689-US-PRV	61/698918			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
45692	45692-US-PAT	13/597387	2014/0067305	9310193	Granted
45694	45694-US-PAT	13/597405	2014/0067306	9360497	Granted
45701	45701-US-PAT	13/778532	2014/0243042	9191991	Granted
45703	45703-US-PAT	13/689313	2014/0145969	9513795	Granted
45709	45709-US-PAT	13/837199	2014/0057667	10028204	Granted
45709	45709-US-PRV	61/693129			Converted
45710	45710-US-PAT	13/758558	2014/0218241	9164161	Granted
45716	45716-US-PAT	13/658892	2014/0115072	9679273	Granted
45717	45717-US-PAT	13/771683	2014/0232328	9395696	Granted
45720	45720-US-PAT	13/562760	2014/0038621	8849293	Granted
45723	45723-US-PAT	13/592472	2014/0058685	9354080	Granted
45726	45726-US-PAT	14/052058	2014/0129648	9369416	Granted
45738	45738-US-PAT	13/593581	2014/0058704	9471539	Granted
45740	45740-US-PAT	13/661574	2014/0119353	9019974	Granted
45742	45742-US-PAT	13/652260	2014/0104306		Abandoned
45743	45743-US-PAT	13/654221	2014/0108002		Abandoned
45754	45754-US-PAT	13/666184	2014/0118404	9569059	Granted
45756	45756-US-PAT	13/644330	2014/0099153	9096093	Granted
45768	45768-US-PAT	13/645491	2014/0098182	9007426	Granted
45770	45770-US-CIP	13/773812	2013/0176228	9310889	Granted
45770	45770-US-CNT	13/588803	2013/0120268		Abandoned
45772	45772-US-PAT	13/659145	2014/0111135	9368987	Granted
45780	45780-US-PAT	13/721152	2014/0052797	9300615	Granted
45780	45780-US-PRV	61/684970			Converted
45786	45786-US-PAT	13/601471	2014/0068261	8977856	Granted
45787	45787-US-PAT	13/661629	2014/0120967	9232532	Granted
45790	45790-US-PAT	13/624516	2014/0085524	9093007	Granted
45792	45792-US-PAT	13/630933	2014/0096006	9098512	Granted
45796	45796-US-PAT	13/707750	2014/0162650	9357451	Granted
45802	45802-US-PAT	13/753033	2014/0215396	9250728	Granted
45803	45803-US-PAT	13/621703	2014/0078952	9591679	Granted
45803-1	45803-1-US-PAT	13/622137	2014/0078971	9826381	Granted
45803-2	45803-2-US-PAT	13/624708	2014/0086152	8982895	Granted
45803-3	45803-3-US-PAT	13/624736	2014/0086153	9014113	Granted
45803-4	45803-4-US-PAT	13/627647	2014/0086157	10154467	Granted
45803-5	45803-5-US-PAT	13/652011	2014/0106707	9137836	Granted
45815	45815-US-PAT	13/649904	2014/0104113	9077074	Granted
45816	45816-US-PAT	13/799058	2014/0262477	9277652	Granted
45821	45821-US-PAT	13/567882	2014/0036048	9413787	Granted
45836	45836-US-PAT	13/826440	2014/0281562	9171140	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
45851	45851-US-PAT	13/654583	2014/0114624	9535189	Granted
45857	45857-US-PAT	13/850819	2014/0297516	9773264	Granted
45864	45864-US-PAT	13/792873	2014/0258970	9158518	Granted
45877	45877-US-CNT	15/435525	2017/0160926	10152228	Granted
45877	45877-US-PAT	13/742036	2014/0198055	9575653	Granted
45881-1	45881-1-US-CNT	14/828859	2015/0358934	9838989	Granted
45881-1	45881-1-US-CNT[2]	15/825149	2018/0084514	10341974	Granted
45881-1	45881-1-US-CNT[3]	16/430552	2019/0289566	11102742	Granted
45881-1	45881-1-US-CNT[4]	17/445628	2021/0392599		Publication of Application
45881-1	45881-1-US-PAT	13/655797	2014/0112243	9131434	Granted
45889	45889-US-PAT	13/750777	2014/0213306	9094050	Granted
45892	45892-US-PAT	13/675947	2014/0130361	9021709	Granted
45897	45897-US-PAT	13/659561	2014/0115693	9075955	Granted
45908	45908-US-PAT	13/649832	2014/0106814	9008725	Granted
45929	45929-US-PAT	13/647676	2014/0098074		Abandoned
45934	45934-US-PAT	13/778606	2014/0241182		Abandoned
45941	45941-US-PAT	13/780039	2014/0148096		Abandoned
45941	45941-US-PRV	61/729849			Converted
45948	45948-US-PAT	13/739098	2014/0198051	9122389	Granted
45957	45957-US-PAT	13/934460	2015/0011211	9918267	Granted
45958	45958-US-CNT	15/376234	2017/0111928	9949289	Granted
45958	45958-US-CNT[2]	15/920184	2018/0227946	10455612	Granted
45958	45958-US-PAT	13/842498	2014/0092785	9544880	Granted
45958	45958-US-PRV	61/707636			Converted
45958-1	45958-1-US-CNT	14/875446	2016/0081071	9642121	Granted
45958-1	45958-1-US-PAT	13/842550	2014/0092823	9155077	Granted
45971	45971-US-CNT	15/989679	2018/0279080	10237695	Granted
45971	45971-US-CNT[2]	16/356284	2019/0215656	10531231	Granted
45971	45971-US-CNT[3]	16/736499	2020/0145785	10887725	Granted
45971	45971-US-PAT	13/750331	2014/0213186	9986380	Granted
45978	45978-US-PAT	13/752054	2014/0211762	9503935	Granted
45978-1	45978-1-US-PAT	13/752316	2014/0211756	9521600	Granted
45985	45985-US-CNT	15/075509	2016/0202944	9519145	Granted
45985	45985-US-PAT	13/707712	2014/0160002	9323057	Granted
45988	45988-US-PAT	13/667838	2014/0126438	9450695	Granted
45988	45988-US-PAT[2]	13/667937	2014/0128078	9622170	Granted
45989	45989-US-PAT	13/653921	2014/0109019	9098127	Granted
45990	45990-US-PAT	13/666489	2014/0119253	9955463	Granted
46004	46004-US-PAT	13/664926	2014/0120850	9077426	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
46009	46009-US-PAT	13/739068	2014/0052723	9223825	Granted
46009	46009-US-PRV	61/691108			Converted
46019	46019-US-CNT	15/012112	2016/0165655	9622285	Granted
46019	46019-US-PAT	13/745517	2014/0071806	9253667	Granted
46019	46019-US-PRV	61/699246			Converted
46020	46020-US-PAT	13/777079	2014/0064365	9854235	Granted
46020	46020-US-PRV	61/695653			Converted
46022	46022-US-PAT	13/723626	2014/0179280		Abandoned
46028	46028-US-CNT	14/594903	2015/0126116	9270337	Granted
46028	46028-US-PAT	13/733487	2014/0187153	8934837	Granted
46040	46040-US-PAT	13/723226	2014/0181242	9137291	Granted
46049	46049-US-CNT[3]	15/796481	2018/0054779	10798649	Granted
46049	46049-US-PAT	13/720750	2014/0171054	9271324	Granted
46049	46049-US-PAT[2]	13/720767	2014/0169284	9036578	Granted
46049	46049-US-PAT[3]	13/720783	2014/0171091	9832717	Granted
46049	46049-US-PAT[4]	13/720801	2014/0169238	9072021	Granted
46051	46051-US-PAT	13/749800	2014/0211041	9247223	Granted
46052	46052-US-CNT	14/992810	2016/0127915	9572042	Granted
46052	46052-US-PAT	13/827699	2014/0274103	9237453	Granted
46060	46060-US-PAT	13/689848	2014/0152537	9081417	Granted
46061	46061-US-PAT	13/713127	2014/0168174	9262033	Granted
46063	46063-US-PAT	13/713278	2014/0165742	8978487	Granted
46065	46065-US-CNT	16/295239	2019/0205187	10521281	Granted
46065	46065-US-PCT	14/653098	2015/0370617	10275293	Granted
46068	46068-US-PAT	13/767360	2014/0225915	9507147	Granted
46071	46071-US-PAT	13/721190	2014/0179336	9554282	Granted
46079	46079-US-PAT	13/767380	2014/0225916	9483875	Granted
46083	46083-US-PCT	13/388852	2012/0194267	8686790	Granted
46083	46083-US-PRV	61/213986			Converted
46085	46085-US-PAT	13/707650	2014/0160168	9082348	Granted
46086	46086-US-PAT	13/673408	2014/0136629	9935909	Granted
46089	46089-US-CNT	15/461691	2017/0192225	9823468	Granted
46089	46089-US-PAT	13/673826	2014/0132818	9641734	Granted
46097	46097-US-PAT	13/629783	2014/0095595	9860222	Granted
46102	46102-US-PAT	13/710838	2014/0162692	8971930	Granted
46104	46104-US-PAT	13/678583	2014/0139694	9124805	Granted
46115	46115-US-PAT	13/624132	2014/0085495	9148567	Granted
46119	46119-US-PAT	13/660570	2014/0119261	8958349	Granted
46137	46137-US-PAT	13/827440	2014/0087715	9578531	Granted
46137	46137-US-PRV	61/706731			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
46148	46148-US-PAT	13/739379	2014/0200050	9065923	Granted
46150	46150-US-PAT	13/888944	2014/0334456	9226329	Granted
46152	46152-US-PAT	13/623916	2014/0085201	9001039	Granted
46154	46154-US-CNT	15/238863	2016/0357805	10515068	Granted
46154	46154-US-PAT	13/837622	2014/0122481	9436714	Granted
46154	46154-US-PRV	61/719625			Converted
46155	46155-US-PAT	13/739710	2014/0095873	9210145	Granted
46155	46155-US-PRV	61/708874			Converted
46156	46156-US-PAT	13/786663	2014/0149033	9212916	Granted
46156	46156-US-PRV	61/729793			Converted
46159	46159-US-PAT	13/660233	2014/0120991	9722298	Granted
46163	46163-US-CIP	13/705774	2014/0122424	8943110	Granted
46163	46163-US-PAT	13/660341	2014/0122542	9165006	Granted
46166	46166-US-PAT	13/723302	2014/0181220	9043420	Granted
46183	46183-US-PAT	13/660546	2014/0120990	9204393	Granted
46199	46199-US-PAT	13/826192	2014/0267043	9465446	Granted
46207	46207-US-PAT	13/779930	2014/0244165	9031783	Granted
46228	46228-US-PAT	13/745115	2014/0202899	9307656	Granted
46230	46230-US-PAT	13/770788	2014/0232663	9465459	Granted
46231	46231-US-CNT	14/952666	2016/0081021	9807686	Granted
46232	46232-US-PAT	13/746381	2014/0207466	9148499	Granted
46233	46233-US-PAT	13/718846	2014/0168255	9508161	Granted
46236	46236-US-PAT	13/782926	2014/0247228	9046946	Abandoned
46253	46253-US-PAT	13/761682	2014/0223365	9292101	Granted
46258	46258-US-PAT	13/723447	2014/0181222	9432323	Granted
46265	46265-US-PAT	13/774230	2014/0245178		Abandoned
46273	46273-US-PAT	13/747978	2014/0207468	9530409	Granted
46275	46275-US-PAT	13/847914	2014/0287685	9253632	Granted
46276	46276-US-PAT	13/789976	2014/0254077	9377807	Granted
46286	46286-US-CNT	15/663067	2017/0331934	10367928	Granted
46286	46286-US-CNT[2]	16/520487	2019/0349460	11159664	Granted
46286	46286-US-PAT	13/706643	2014/0163994	9723118	Granted
46287	46287-US-PAT	13/867754	2014/0315593	9288772	Granted
46293	46293-US-PAT	13/778334	2014/0243010	9232492	Granted
46300	46300-US-PAT	13/752759	2014/0112223	9781676	Granted
46300	46300-US-PRV	61/718028			Converted
46304	46304-US-CNT	15/388002	2017/0102782	10429946	Granted
46304	46304-US-PAT	14/319297	2015/0378552	9563358	Granted
46308	46308-US-PAT	14/315912	2015/0378982	9477653	Granted
46309	46309-US-PAT	13/771380	2014/0237411	10037139	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
46310	46310-US-CNT	14/921673	2016/0041966	10642933	Granted
46310	46310-US-PAT	13/834932	2014/0282201	9189157	Granted
46314	46314-US-CNT	14/699622	2015/0237009	9825914	Granted
46314	46314-US-PAT	13/862171	2014/0310512	9055032	Granted
46326	46326-US-CNT	15/162080	2016/0266659		Abandoned
46326	46326-US-PAT	13/833303	2014/0267056	9348429	Granted
46330	46330-US-PAT	13/721929	2014/0181350	9244876	Granted
46334	46334-US-PAT	13/660091	2014/0122633	9524488	Granted
46335	46335-US-PAT	13/660109	2014/0237054	9619785	Granted
46340	46340-US-PAT	13/771187	2014/0232656	10078437	Granted
46348	46348-US-PAT	13/754231	2014/0115150	9692832	Granted
46348	46348-US-PRV	61/717863			Converted
46375	46375-US-PAT	13/757903	2014/0219397	9197469	Granted
46391	46391-US-CNT	15/063100	2016/0253568	9600729	Granted
46391	46391-US-PAT	13/923761	2014/0375573	9280219	Granted
46392	46392-US-PCT	14/646513	2015/0317978	10497374	Granted
46402	46402-US-PAT	13/828799	2014/0266021	9692248	Granted
46404	46404-US-PAT	13/725427	2014/0177485	9374189	Granted
46404	46404-US-PAT[2]	13/725497	2014/0177486	9768929	Granted
46405	46405-US-PAT	13/660359	2014/0123272	8959616	Granted
46414	46414-US-PAT	13/918080	2014/0373115	10068085	Granted
46424	46424-US-PAT	13/790250	2014/0253320	9787821	Granted
46426	46426-US-PAT	13/765979	2014/0225898	9208583	Granted
46429	46429-US-CNT	15/066805	2016/0192288	9930614	Granted
46429	46429-US-PAT	13/768724	2014/0233544	9313730	Granted
46440	46440-US-PAT	13/918332	2014/0369245	9215656	Granted
46441	46441-US-PAT	13/766107	2014/0230041	9432336	Granted
46442	46442-US-PAT	13/754217	2014/0210730	9075464	Granted
46451	46451-US-PAT	13/774894	2014/0241225	9301281	Granted
46453	46453-US-PAT	13/753293	2014/0215336	9535503	Granted
46466	46466-US-PAT	13/774732	2014/0245213	9619131	Granted
46476	46476-US-PAT	13/857175	2014/0302818	9020567	Granted
46479	46479-US-PAT	13/768168	2014/0237055	9680787	Granted
46487	46487-US-PAT	13/896531	2014/0344711	9300617	Granted
46494	46494-US-PAT	13/715742	2014/0172993	9215200	Granted
46495	46495-US-PAT	13/895037	2014/0341182	9801099	Granted
46496	46496-US-PAT	13/838615	2014/0268629	9599765	Granted
46498	46498-US-PAT	13/752695	2014/0215253	9285858	Granted
46501	46501-US-PAT	13/745468	2014/0204736	9554300	Granted
46511	46511-US-PAT	13/689902	2014/0156227	9664539	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
46515	46515-US-CIP	14/021371	2014/0247834	9461812	Granted
46526	46526-US-PAT	13/828082	2014/0282214	9690476	Granted
46533	46533-US-CNT	15/063160	2016/0189714	9653080	Granted
46533	46533-US-CNT[2]	15/593997	2017/0263252	9978369	Granted
46533	46533-US-PAT	13/778325	2014/0244268	9280981	Granted
46543	46543-US-PAT	13/777794	2014/0243002	8989755	Granted
46551	46551-US-PAT	13/799531	2014/0283012	9367672	Granted
46554	46554-US-PAT	13/749508	2014/0204809	9407489	Granted
46570	46570-US-PAT	13/857501	2014/0300587	9229542	Granted
46603	46603-US-PAT	13/856628	2014/0301361	9161278	Granted
46616	46616-US-PAT	13/773408	2014/0233466	9369253	Granted
46616-1	46616-1-US-CNT	15/208168	2016/0323895	10064200	Granted
46616-1	46616-1-US-CNT[2]	16/049226	2019/0029025	10555319	Granted
46616-1	46616-1-US-PAT	13/773413	2014/0233407	9425946	Granted
46620	46620-US-PAT	13/752944	2014/0213304	9258676	Granted
46624	46624-US-PCT	14/759239	2016/0080749	10412396	Granted
46628	46628-US-PAT	13/840023	2014/0267010	9685001	Granted
46632	46632-US-DIV	14/923029	2016/0050607	9900820	Granted
46632	46632-US-PAT	13/745051	2014/0204771	9173147	Granted
46649	46649-US-PAT	13/834714	2014/0266973	9225058	Granted
46651	46651-US-PAT	13/857166	2014/0302893	9451076	Granted
46653	46653-US-PAT	13/800423	2014/0269357	9094862	Granted
46662	46662-US-PCT	14/760514	2015/0358621	10291912	Granted
46669	46669-US-CNT	14/794943	2015/0324007	9614523	Granted
46669	46669-US-PAT	13/851240	2014/0292658	9344085	Granted
46671	46671-US-PAT	13/765773	2014/0229553	9210113	Granted
46675	46675-US-CNT	15/263190	2017/0070915	10231150	Granted
46675	46675-US-PAT	13/789931	2014/0254476	9444745	Granted
46687	46687-US-CNT	15/153374	2016/0261389	9800377	Granted
46687	46687-US-PAT	13/839974	2014/0269605	9369247	Granted
46690	46690-US-PAT	13/803548	2014/0267182	9128541	Granted
46698	46698-US-PAT	13/871047	2014/0321566	9264124	Granted
46720	46720-US-PAT	13/804668	2014/0173500		Abandoned
46720	46720-US-PRV	61/739319			Converted
46722	46722-US-CNT	15/048669	2016/0173586	9942316	Granted
46722	46722-US-PAT	13/836759	2014/0223019	9301127	Granted
46722	46722-US-PRV	61/761576			Converted
46725	46725-US-CNT	14/791332	2015/0304956	9503988	Granted
46725	46725-US-PAT	13/848791	2014/0287733	9107166	Granted
46735	46735-US-PAT	13/787959	2014/0258420	9432319	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
46736	46736-US-PAT	13/837107	2014/0281942	9176940	Granted
46746	46746-US-PAT	13/767644	2014/0226636	8964705	Granted
46746-1	46746-1-US-CNT	15/376046	2017/0094625	9986524	Granted
46746-1	46746-1-US-CNT[2]	15/988886	2018/0343630	10694481	Granted
46746-1	46746-1-US-CNT[3]	16/903083	2020/0314785		Publication of Application
46746-1	46746-1-US-PAT	13/767682	2014/0226541	9521637	Granted
46751	46751-US-PAT	13/889382	2014/0335917	9083782	Granted
46754	46754-US-PAT	13/891510	2014/0336920	8935089	Granted
46755	46755-US-CNT	16/198021	2019/0095682	10755069	Granted
46755	46755-US-PAT	13/925111	2014/0375786	10146988	Granted
46759	46759-US-CIP	13/947750	2014/0207946	10205705	Granted
46759	46759-US-PAT	13/749292	2014/0207943		Abandoned
46762	46762-US-PAT	13/932470	2015/0002385	9323336	Granted
46773	46773-US-CNT	15/243567	2016/0358585	9865227	Granted
46773	46773-US-PAT	13/932235	2015/0002471	9423913	Granted
46774	46774-US-PAT	13/852357	2014/0293570	9247681	Granted
46778	46778-US-PAT	13/871057	2014/0320373	9634395	Granted
46780	46780-US-CNT	15/142944	2016/0246956	9928356	Granted
46780	46780-US-PAT	13/932243	2015/0007308	9342671	Granted
46783	46783-US-PAT	13/753187	2014/0213233	8892086	Reissued (Inactive Parent)
46783	46783-US-REI	15/355729		RE47297	Granted
46800	46800-US-CNT	15/174226	2016/0285869	10075438	Granted
46800	46800-US-PAT	13/861510	2014/0310777	9363669	Granted
46803	46803-US-PAT	13/858231	2014/0304830	9298930	Granted
46830	46830-US-PAT	13/904062	2014/0355675	9143797	Granted
46832	46832-US-PAT	13/921636	2014/0378158	9521508	Granted
46834	46834-US-CNT	15/072493	2016/0196099	10437547	Granted
46834	46834-US-PAT	13/774542	2014/0244738	9311041	Granted
46837	46837-US-PAT	13/774510	2014/0245174	9326019	Granted
46842	46842-US-PAT	13/891847	2014/0335909	9084211	Granted
46843	46843-US-CNT	15/272927	2017/0013022	10320850	Granted
46843	46843-US-CNT[2]	16/420867	2019/0312913	11032324	Granted
46843	46843-US-CNT[3]	17/322424	2021/0329039		Publication of Application
46843	46843-US-PAT	13/925299	2014/0380056	9467283	Granted
46849	46849-US-CNT	13/792784	2014/0242989	9717112	Granted
46849	46849-US-PAT	13/776985	2014/0242960	9084264	Granted
46851	46851-US-PAT	13/752970	2014/0215356	9699271	Granted
46859	46859-US-CNT	15/205115	2016/0320856	10394331	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
46859	46859-US-PAT	13/923811	2014/0380187	9389691	Granted
46862	46862-US-PAT	13/891229	2014/0333544	9417667	Granted
46870	46870-US-PAT	13/837819	2014/0269632	9578671	Granted
46871	46871-US-CNT	14/936235	2016/0066174	10021555	Granted
46871	46871-US-PAT	13/856969	2014/0302784	9210562	Granted
46873	46873-US-CNT	15/096322	2016/0227357	10104523	Granted
46873	46873-US-PAT	13/893300	2014/0335787	9344485	Granted
46876	46876-US-PAT	13/891694	2014/0334502	9282172	Granted
46886	46886-US-PAT	13/869742	2014/0320387		Abandoned
46890	46890-US-PAT	13/891420	2014/0333431	9065932	Granted
46891	46891-US-PAT	16/431845	2020/0389293		Allowed (Notice of Allowance)
46899	46899-US-CNT	15/201556	2016/0314285	9940447	Granted
46899	46899-US-PAT	13/792402	2014/0215634	9386451	Granted
46899	46899-US-PRV	61/757989			Converted
46900	46900-US-PAT	13/950948	2014/0213217	10460086	Granted
46903	46903-US-PAT	13/842612	2014/0269368	9173109	Granted
46908	46908-US-PAT	14/021872	2015/0071268	9654965	Granted
46919	46919-US-PAT	13/855201	2014/0293883	9179445	Granted
46922	46922-US-PAT	13/886426	2014/0331263	9497506	Granted
46959	46959-US-DIV	14/816865	2015/0341835	9532281	Granted
46959	46959-US-PAT	13/856224	2014/0301360	9100883	Granted
46978	46978-US-CNT	14/796241	2015/0318898	9319109	Granted
46978	46978-US-PAT	13/936648	2015/0011160	9088305	Granted
46980	46980-US-PAT	13/969089	2015/0049027	9244550	Granted
46989	46989-US-PAT	13/929881	2015/0002481	9696819	Granted
46997	46997-US-PCT	14/002371	2015/0215879	9408167	Granted
47012	47012-US-CNT	15/061137	2016/0188989	9589196	Granted
47012	47012-US-PAT	14/030187	2015/0078634	9311545	Granted
47013	47013-US-PAT	14/030221	2015/0078635	9418273	Granted
47017	47017-US-PAT	13/774586	2014/0244739	9516072	Granted
47024	47024-US-PAT	13/918010	2014/0369512	9351068	Granted
47027	47027-US-PAT	13/891939	2014/0334439	9420605	Granted
47041	47041-US-PAT	13/869555	2014/0324962		Appealed
47047	47047-US-PAT	13/891258	2014/0337937	9088556	Granted
47049	47049-US-PAT	13/895681	2014/0342663	9602645	Granted
47066	47066-US-PAT	13/924941	2014/0379575		Abandoned
47069	47069-US-PAT	13/866442	2014/0312856	9075425	Granted
47074	47074-US-PAT	13/869612	2014/0325382	9740389	Granted
47074-1	47074-1-US-PAT	13/869760	2014/0325383	9736218	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
47075	47075-US-PAT	13/887003	2014/0331188	10545660	Granted
47078	47078-US-PAT	13/911235	2014/0361876	9389638	Granted
47080	47080-US-PAT	13/919485	2014/0370886	9642042	Granted
47090	47090-US-PAT	13/891498	2014/0334392	9112685	Granted
47096	47096-US-CNT	16/132598	2019/0018500	10353484	Granted
47096	47096-US-CNT[2]	16/510138	2019/0332183	10884509	Granted
47096	47096-US-CNT[3]	17/088741	2021/0072835		Publication of Application
47096	47096-US-PAT	13/903206	2014/0354527	10078372	Granted
47097	47097-US-PAT	13/861522	2014/0307591	9084275	Granted
47100-1	47100-1-US-PAT	13/858852	2014/0301448	9674538	Granted
47111	47111-US-PAT	13/921653	2014/0376600	9112559	Granted
47116	47116-US-PAT	13/957214	2015/0036282	9207714	Granted
47117	47117-US-PAT	13/922355	2014/0375515		Abandoned
47122	47122-US-PAT	13/911926	2014/0362750	8917668	Granted
47127	47127-US-PAT	13/908823	2014/0354483	9620849	Granted
47131	47131-US-PAT	13/939734	2015/0017909	9020428	Granted
47152	47152-US-PAT	13/911899	2014/0364055	9167375	Granted
47162	47162-US-PAT	13/916662	2014/0369508	9426569	Granted
47185	47185-US-PAT	13/923464	2014/0379325	9244906	Granted
47194	47194-US-CNT	15/445638	2017/0181035	10321359	Granted
47194	47194-US-PAT	13/886627	2014/0328182	9629025	Granted
47195	47195-US-PAT	13/854341	2014/0293882	9144102	Granted
47196	47196-US-PAT	13/922093	2014/0376360	9537796	Granted
47198	47198-US-CNT	15/080153	2016/0202850	9553967	Granted
47198	47198-US-CNT[2]	15/387959	2017/0115828	10402040	Granted
47198	47198-US-PAT	13/974694	2014/0277843	9300779	Granted
47198	47198-US-PRV	61/792323			Converted
47208	47208-US-PAT	13/915886	2014/0370870	9277349	Granted
47210	47210-US-PAT	13/931036	2015/0002347	9577316	Granted
47220	47220-US-PAT	13/946520	2015/0023401	9509545	Granted
47227	47227-US-PAT	13/932487	2015/0002386	9256290	Granted
47233	47233-US-PAT	13/932260	2015/0002720	9398221	Granted
47236	47236-US-PAT	13/891627	2014/0337941	9384342	Granted
47249	47249-US-PAT	13/856003	2014/0304651	9507495	Granted
47256	47256-US-CNT	15/372368	2017/0126771	10091267	Granted
47256	47256-US-CNT[2]	16/132641	2019/0020705		Abandoned Decision
47256	47256-US-PAT	13/957730	2015/0036735	9525714	Granted
47264	47264-US-CNT	15/381175	2017/0104988	10368064	Granted
47264	47264-US-PAT	13/957786	2015/0036733	9532043	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
47265	47265-US-CNT	15/282850	2017/0024019	9690391	Granted
47265	47265-US-PAT	13/923857	2014/0375568	9459701	Granted
47268	47268-US-CNT	17/239182	2021/0241262		Publication of Application
47268	47268-US-PAT	13/916979	2014/0372299	11037137	Granted
47271	47271-US-CNT	15/040057	2016/0165452	9532226	Granted
47271	47271-US-PAT	13/912539	2014/0364085	9294922	Granted
47272	47272-US-PAT	13/912556	2014/0361872	9276643	Granted
47273	47273-US-PAT	13/897110	2014/0340319	9170669	Granted
47274	47274-US-PAT	14/277172	2015/0334425		Abandoned
47278	47278-US-PAT	13/912458	2014/0361993	9261973	Granted
47282	47282-US-PAT	13/958361	2015/0035758	9552042	Granted
47289	47289-US-PAT	13/933476	2015/0009187	9280214	Granted
47294	47294-US-PAT	13/940484	2015/0017931	9179411	Granted
47303	47303-US-PAT	13/914670	2014/0362905	9787989	Granted
47308	47308-US-PAT	14/022915	2015/0071183	9276698	Granted
47310	47310-US-PAT	13/963719	2015/0043824	9201592	Granted
47330	47330-US-PAT	13/952137	2015/0033191	9280259	Granted
47332	47332-US-CNT	16/186093	2019/0080315		Publication of Application
47332	47332-US-PAT	13/916927	2014/0372298		Abandoned
47351	47351-US-PAT	14/025252	2015/0074606	9594470	Granted
47355	47355-US-PAT	13/932271	2015/0002384	9489051	Granted
47359	47359-US-CNT	15/331152	2017/0041982	9961715	Granted
47359	47359-US-CNT[2]	15/967228	2018/0249529	10321511	Granted
47359	47359-US-PAT	13/907367	2014/0355562	9479230	Granted
47360	47360-US-PAT	13/904698	2014/0359750	9552472	Granted
47361	47361-US-CNT	16/194057	2019/0090177	10785707	Granted
47361	47361-US-PCT	14/907673	2016/0174135	10182390	Granted
47362	47362-US-PAT	13/932280	2015/0002472	9367137	Granted
47367	47367-US-CNT	15/188692	2016/0301262	9819232	Granted
47367	47367-US-CNT[2]	15/726185	2018/0048190	10014732	Granted
47367	47367-US-PAT	14/073345	2015/0123602	9391470	Granted
47369	47369-US-PAT	13/890448	2014/0334389	10178703	Granted
47396	47396-US-PAT	13/921248	2014/0375835	9055210	Granted
47400	47400-US-PAT	13/973397	2015/0054579	9190963	Granted
47408	47408-US-PAT	13/946080	2015/0026819	9710665	Granted
47414	47414-US-PAT	14/016410	2015/0065037	9124305	Granted
47416	47416-US-PAT	13/943882	2015/0026592	9342228	Granted
47416-1	47416-1-US-PAT	13/943847	2015/0026590	9313316	Granted
47432	47432-US-PAT	13/920426	2014/0369492	9148282	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
47435	47435-US-PAT	13/947718	2015/0022411	9397393	Granted
47440	47440-US-PAT	14/013715	2015/0063503	9112660	Granted
47441	47441-US-PAT	13/949727	2015/0028186	9465448	Granted
47450	47450-US-CNT	15/943397	2018/0227740	10812961	Granted
47450	47450-US-PAT	14/067675	2015/0117309	9936368	Granted
47451	47451-US-PAT	13/896152	2014/0342116	9259884	Granted
47452	47452-US-PAT	13/896096	2014/0341630	9348426	Granted
47458	47458-US-PAT	14/014599	2015/0066368	9482547	Granted
47459	47459-US-PAT	13/917001	2014/0372902	11074618	Granted
47460	47460-US-PAT	13/916951	2014/0372905	10049342	Granted
47463	47463-US-PAT	13/946413	2015/0026612	9804746	Granted
47464	47464-US-PAT	14/041578	2015/0002945	9110217	Granted
47464	47464-US-PRV	61/840707			Converted
47479	47479-US-PAT	13/916973	2014/0370830	9426754	Granted
47489	47489-US-CNT	14/833767	2015/0365869	9998973	Granted
47489	47489-US-PAT	13/960187	2015/0045038	9125112	Granted
47507	47507-US-PAT	14/016881	2015/0062059	9141243	Granted
47510	47510-US-PAT	13/949748	2015/0029086	9304596	Granted
47511	47511-US-PAT	14/026988	2015/0078177	10123222	Granted
47511-1	47511-1-US-PAT	14/027004	2015/0078212	10110264	Granted
47518	47518-US-CNT	15/832122	2018/0097494	10305438	Granted
47518	47518-US-PAT	14/852156	2017/0077885	9847764	Granted
47520	47520-US-PAT	13/948283	2015/0029085	9817565	Granted
47530	47530-US-PAT	14/078404	2015/0131540	9629191	Granted
47531	47531-US-PAT	14/048386	2015/0099400	9293865	Granted
47534	47534-US-PAT	13/937444	2015/0015540	9405461	Granted
47536	47536-US-CNT	12/366445	2009/0144632	8260796	Granted
47536	47536-US-CNT[2]	13/584532			Abandoned
47536	47536-US-PAT	10/279369	2003/0097358	7539665	Granted
47537	47537-US-PAT	10/653830		7236770	Granted
47541	47541-US-PAT	14/014620	2015/0061839	9400898	Granted
47549	47549-US-PAT	14/011511	2015/0062090	9182853	Granted
47550	47550-US-PAT	14/038481	2015/0085680	9461800	Granted
47553	47553-US-PAT	14/089024	2015/0148094	9474027	Granted
47557	47557-US-PAT	13/894995	2014/0240216	9703370	Granted
47558	47558-US-PAT	13/974429	2015/0054774	9804712	Granted
47564	47564-US-PAT	13/928988	2015/0001058	9711303	Granted
47570	47570-US-PAT	13/968642	2015/0050940	9131513	Granted
47573	47573-US-PAT	14/069462	2015/0127187	9690306	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
47585	47585-US-CNT	17/179473	2021/0176715		Publication of Application
47585	47585-US-PAT	13/957620	2015/0036566	10932205	Granted
47586	47586-US-CNT	16/005275	2018/0359667	10477441	Granted
47586	47586-US-DIV	15/350440	2017/0064590	9998964	Granted
47586	47586-US-PAT	14/069532	2015/0124708	9497673	Granted
47618	47618-US-CNT	14/870706	2016/0021648	9844051	Granted
47618	47618-US-CNT[2]	15/716027	2018/0020439	10383110	Granted
47618	47618-US-PAT	13/954752	2015/0036666		Abandoned
47620	47620-US-PAT	14/056722	2015/0113471	9710126	Granted
47625	47625-US-CNT	16/371380	2019/0230679	11019640	Granted
47625	47625-US-DIV	15/609180	2017/0273098	10264591	Granted
47625	47625-US-PAT	13/971176	2015/0055516	9699801	Granted
47626	47626-US-PAT	14/034673	2015/0084600	9406980	Granted
47627	47627-US-CNT	15/589382	2017/0245252	10856278	Granted
47627	47627-US-CNT[2]	17/088464	2021/0051639		Publication of Application
47627	47627-US-PAT	13/963676	2015/0043435	9648514	Granted
47631	47631-US-PAT	13/940435	2015/0019552	9547731	Granted
47632	47632-US-PAT	13/973876	2015/0054699	9325067	Granted
47644	47644-US-PAT	13/922792	2014/0378063		Abandoned
47645	47645-US-PAT	13/922840	2014/0379920	9584979	Granted
47647	47647-US-PAT	14/089172	2015/0145730	9214719	Granted
47674	47674-US-PAT	13/920185	2014/0372371	10817481	Granted
47675	47675-US-PAT	14/033104	2015/0085677	10075954	Granted
47678	47678-US-PAT	14/028067	2015/0079906	9591430	Granted
47689	47689-US-PAT	13/931018	2015/0004944	9467824	Granted
47690	47690-US-CNT	16/940164	2021/0014650		Publication of Application
47690	47690-US-PAT	13/931166	2015/0004945	10728716	Granted
47691	47691-US-PAT	13/930219	2015/0007049	9338116	Granted
47693	47693-US-PAT	13/961353	2015/0043333	9379987	Granted
47701	47701-US-PAT	14/075236	2015/0131827	9491552	Granted
47704	47704-US-CNT	14/886829	2016/0044515	9532228	Granted
47704	47704-US-PAT	13/962634	2015/0043390	9167449	Granted
47710	47710-US-PAT	14/023646	2015/0072679	9730147	Granted
47713	47713-US-CNT	15/207045	2016/0321882	9704358	Granted
47713	47713-US-PAT	14/024006	2015/0072738	9390598	Granted
47715	47715-US-PAT	14/031717	2015/0079975	9894675	Granted
47721	47721-US-PAT	14/221413	2015/0268855	9665279	Granted
47723	47723-US-CNT	15/943084	2018/0227745	10524113	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
47723	47723-US-PAT	14/166128	2015/0215766	9942746	Granted
47728	47728-US-CNT	14/746236	2015/0286287	9823754	Granted
47728	47728-US-PAT	13/969109	2015/0049024	9086734	Granted
47735	47735-US-PAT	14/038889	2015/0091766	9537217	Granted
47744	47744-US-PAT	13/946442	2015/0026269	9813372	Granted
47756	47756-US-PAT	13/962605	2015/0043141	9274568	Granted
47764	47764-US-PAT	13/953034	2015/0031288	9002275	Granted
47765	47765-US-PAT	14/045858	2015/0098442	9332476	Granted
47766	47766-US-CNT	14/930179	2017/0012946	9825919	Granted
47766	47766-US-PAT	14/073379	2015/0124961	9178699	Granted
47774	47774-US-CNT	15/174259	2016/0286423	9854465	Granted
47774	47774-US-CNT[2]	15/816867	2018/0103385	10405218	Granted
47774	47774-US-PCT	14/113284	2015/0049649	9391759	Granted
47775	47775-US-PAT	14/051277	2015/0103015		Abandoned
47776	47776-US-PAT	14/063580	2015/0117657	9263023	Granted
47782	47782-US-CNT	15/400322	2017/0118749	10645680	Granted
47782	47782-US-PAT	14/194211	2015/0249979	9549394	Granted
47783	47783-US-CNT	15/297295	2017/0041877	9998997	Granted
47783	47783-US-PAT	14/037868	2015/0085712	9510389	Granted
47788	47788-US-PAT	14/030353	2015/0078678	9443335	Granted
47790	47790-US-PAT	14/064243	2015/0116273	9280283	Granted
47791	47791-US-PAT	14/029279	2015/0082297	9069641	Granted
47817	47817-US-CNT	15/140948	2016/0323764	9955372	Granted
47817	47817-US-PAT	14/015730	2015/0063131	9332448	Granted
47823	47823-US-CNT	15/383898	2017/0096147	11052920	Granted
47823	47823-US-PAT	14/168873	2015/0210291	9522682	Granted
47828	47828-US-PAT	13/969127	2015/0049025	9323344	Granted
47834	47834-US-CNT	15/092274	2016/0219484	10178596	Granted
47834	47834-US-PAT	14/052324	2015/0105084	9313698	Granted
47838	47838-US-CNT	15/388789	2017/0105102	10051441	Granted
47838	47838-US-PAT	14/213002	2015/0264123	9532193	Granted
47871	47871-US-CNT	15/230573	2017/0032762	10192516	Granted
47871	47871-US-PAT	14/136944	2015/0179130	9412332	Granted
47874	47874-US-CNT	15/198137	2016/0308659	10033512	Granted
47874	47874-US-PAT	14/033256	2015/0085711	9386602	Granted
47884	47884-US-PAT	14/031436	2015/0078445	9813737	Granted
47884-1	47884-1-US-CNT	14/942296	2016/0073130	9681152	Granted
47884-1	47884-1-US-PAT	14/031393	2015/0078432	9215464	Granted
47903	47903-US-PAT	14/242010	2015/0281871	9473876	Granted
47903	47903-US-PRV	61/973247			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
47915	47915-US-CNT	15/137108	2016/0242079	10362512	Granted
47915	47915-US-PAT	14/024144	2015/0071167	9326194	Granted
47938	47938-US-PAT	14/136565	2015/0177360	9507010	Granted
47948	47948-US-PAT	14/048473	2015/0098535	9160382	Granted
47955	47955-US-PAT	14/091195	2015/0146982	9111170	Granted
47972	47972-US-PAT	14/040908	2015/0095839	9542407	Granted
47973	47973-US-PAT	14/040878	2015/0091811	10234988	Granted
47984	47984-US-PAT	14/048603	2015/0097633	9059490	Granted
47987	47987-US-PAT	14/093799	2015/0156580	9432762	Granted
48026	48026-US-PAT	14/019740	2015/0069921	9194741	Granted
48039	48039-US-PAT	14/048742	2015/0097634		Abandoned
48041	48041-US-CNT	15/644542	2017/0374660		Abandoned
48041	48041-US-PAT	14/187157	2015/0245343	9706532	Granted
48044	48044-US-PAT	14/070789	2015/0123930	9436324	Granted
48055	48055-US-PAT	14/147153	2015/0195631	9432756	Granted
48080	48080-US-PAT	14/090092	2015/0146769	9191250	Granted
48125	48125-US-PAT	14/186505	2015/0245316	9609630	Granted
48147	48147-US-PAT	14/091813	2015/0147995	9654953	Granted
48152	48152-US-PAT	14/245512	2015/0287164	9779474	Granted
48155	48155-US-PAT	14/051989	2015/0103918	9456210	Granted
48155-1	48155-1-US-PAT	14/051968	2015/0103917	9264724	Granted
48162	48162-US-CIP	14/164978	2014/0324938	9686346	Granted
48164	48164-US-CNT	15/412903	2017/0135000	9942808	Granted
48164	48164-US-PAT	14/269372	2015/0319774	9554397	Granted
48169	48169-US-CNT	15/131815	2016/0309358	9826429	Granted
48169	48169-US-PAT	14/166535	2015/0215811	9319926	Granted
48176	48176-US-PAT	14/245392	2015/0288633	9544257	Granted
48178	48178-US-CNT	15/612084	2017/0289887	10924973	Granted
48178	48178-US-PAT	14/245490	2015/0264602	9706442	Granted
48187	48187-US-PAT	15/445590	2018/0248698	10708052	Granted
48202	48202-US-PAT	14/248498	2015/0295441	9711983	Granted
48204	48204-US-CNT	15/958008	2018/0242117	10904713	Granted
48204	48204-US-PAT	14/229324	2015/0281912	9973901	Granted
48219	48219-US-CNT	15/223920	2016/0337130	9866396	Granted
48219	48219-US-CNT[2]	15/841530	2018/0109389	10284377	Granted
48219	48219-US-CNT[3]	16/369669	2019/0229928	10812273	Granted
48219	48219-US-PAT	14/220983	2015/0270975	9407444	Granted
48239	48239-US-PAT	14/204300	2015/0264833	9615484	Granted
48240	48240-US-CNT	15/207013	2016/0321492	9542590	Granted
48240	48240-US-PAT	14/485060	2016/0078268	9390308	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
48251	48251-US-PAT	14/991455	2017/0201924	10009820	Granted
48267	48267-US-PAT	14/683400	2015/0294474	10096115	Granted
48287	48287-US-PAT	14/486772	2016/0079655	9608312	Granted
48289	48289-US-CNT	15/078815	2016/0205040		Publication of Application
48289	48289-US-PAT	14/106472	2015/0173119	9326311	Granted
48290	48290-US-PAT	14/555166	2016/0148396		Abandoned
48293	48293-US-PAT	14/217845	2015/0268813	9436348	Granted
48295	48295-US-PAT	14/718283	2015/0340898	9812884	Granted
48309	48309-US-PAT	14/169398	2015/0220566	9418076	Granted
48332	48332-US-CNT	15/209028	2016/0322994	9755676	Granted
48332	48332-US-PAT	14/253441	2015/0295600	9413399	Granted
48335	48335-US-PAT	14/326882	2016/0014509	9516414	Granted
48340	48340-US-CNT	16/450265	2019/0313320		Publication of Application
48340	48340-US-PAT	14/158466	2015/0208324	10349341	Granted
48347	48347-US-CNT	15/595329	2017/0251020	9866588	Granted
48347	48347-US-PAT	14/250937	2015/0296378	9693225	Granted
48358	48358-US-PAT	14/220208	2015/0271444	9392217	Granted
48359	48359-US-PAT	14/262672	2015/0312873	9967851	Granted
48362	48362-US-CNT	16/230292	2019/0121527		Allowed (Notice of Allowance)
48362	48362-US-PAT	14/255452	2015/0301838	10162505	Granted
48366	48366-US-PAT	14/201272	2015/0253945	9547422	Granted
48374	48374-US-PAT	14/473094	2016/0061586	9869544	Granted
48406	48406-US-PAT	14/296901	2015/0358634	9438923	Granted
48431	48431-US-PAT	14/555632	2016/0157014	9414160	Granted
48431-1	48431-1-US-PAT	14/555635	2016/0157015	9414161	Granted
48441	48441-US-PAT	14/317536	2015/0378666	9886232	Granted
48447	48447-US-PAT	14/310616	2015/0373575	9654999	Granted
48491	48491-US-PAT	14/935810	2016/0138944	9778076	Granted
48494	48494-US-PAT	14/592468	2016/0203307	9852280	Granted
48497	48497-US-PAT	14/273869	2015/0327309	10187908	Granted
48512	48512-US-CNT	15/478813	2017/0208249	9848125	Granted
48512	48512-US-PAT	14/625737	2016/0248975	9648236	Granted
48550	48550-US-PAT	14/321534	2016/0007292	10051575	Granted
48568	48568-US-PCT	15/126849	2017/0099513	10009643	Granted
48569	48569-US-PAT	14/479609	2016/0070379	9696860	Granted
48591	48591-US-CNT	16/141319	2019/0028964	10356708	Granted
48591	48591-US-PAT	14/526656	2016/0127983	10117166	Granted
48599	48599-US-PAT	14/707895	2016/0330597	9883358	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
48603	48603-US-PAT	14/555406	2016/0147495	9442686	Granted
48607	48607-US-PAT	14/472758	2016/0066225	9538436	Granted
48610	48610-US-PAT	14/267664	2015/0317293	10289662	Granted
48624	48624-US-CNT	15/728301	2018/0034860	10277635	Granted
48624	48624-US-PAT	14/610420	2016/0226922	9787726	Granted
48625	48625-US-PAT	14/471790	2016/0062619	10203858	Granted
48632	48632-US-PAT	14/286766	2015/0339473	9760704	Granted
48635	48635-US-PAT	14/307204	2015/0363474	10169430	Granted
48637	48637-US-CNT	15/492423	2017/0223511	9860707	Granted
48637	48637-US-PAT	14/803530	2017/0026806	9955316	Granted
48640	48640-US-PAT	15/165338	2017/0343638	9958531	Granted
48641	48641-US-CNT	15/061165	2017/0026804	10419874	Granted
48641	48641-US-PAT	14/803493		9301100	Granted
48646	48646-US-PAT	14/465668	2016/0057055	9912588	Granted
48649	48649-US-CNT	16/382922	2019/0246379		Publication of Application
48649	48649-US-PAT	14/479985	2016/0073404	10292142	Granted
48649	48649-US-PAT[2]	14/480022	2016/0073428		Abandoned
48649	48649-US-PAT[3]	14/480058	2016/0073265	10560846	Granted
48653	48653-US-PAT	14/304266	2015/0363186	10282186	Granted
48655	48655-US-PAT	14/528109	2016/0128111	9585180	Granted
48666	48666-US-PAT	14/294140	2015/0350895	9226147	Granted
48675	48675-US-PAT	14/835797	2017/0060808	9727519	Granted
48677	48677-US-CNT	15/360666	2017/0075543	10180780	Granted
48677	48677-US-PAT	14/625373	2016/0239129	9535527	Granted
48683	48683-US-PAT	14/539278	2016/0135042	10659959	Granted
48684	48684-US-CNT	15/243401	2016/0360374	9848303	Granted
48684	48684-US-PAT	14/517450	2016/0112940	9426730	Granted
48689	48689-US-PAT	14/294065	2015/0350163	9270648	Granted
48690	48690-US-PAT	14/293783	2015/0350250	9473534	Granted
48703	48703-US-CIP	14/644131	2015/0350251	9935979	Granted
48710	48710-US-PAT	14/591370	2016/0196013		Abandoned
48715	48715-US-PAT	14/552590	2016/0150230	9628803	Granted
48719	48719-US-PAT	14/614747	2016/0232701		Abandoned
48721	48721-US-CNT	15/628359	2017/0353868	10225745	Granted
48721	48721-US-PAT	14/473189	2016/0065319	9686690	Granted
48729	48729-US-CNT	15/348148	2017/0064592	10064111	Granted
48729	48729-US-PAT	14/489956	2016/0088127	9497299	Granted
48733	48733-US-PAT	14/555642	2016/0156322	9374052	Granted
48734	48734-US-PAT	14/528303	2016/0127526	9699283	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
48752	48752-US-PAT	14/612040	2016/0226585		Abandoned
48756	48756-US-PAT	14/635396	2016/0259378	9612625	Granted
48757	48757-US-PAT	14/939529	2017/0138740	10012509	Granted
48758	48758-US-CNT	15/154447	2016/0255467	9668094	Granted
48758	48758-US-PAT	14/511833	2016/0105843	9363743	Granted
48760	48760-US-CNT	16/577075	2020/0015157		Allowed (Notice of Allowance)
48760	48760-US-PAT	14/558264	2016/0157168	10462733	Granted
48763	48763-US-PAT	14/476951	2016/0072743	10476823	Granted
48765	48765-US-PAT	14/340148	2016/0028875	9800711	Granted
48766	48766-US-PAT	14/340201	2016/0026352	11157148	Granted
48767	48767-US-PAT	14/340243	2016/0026367	10528234	Granted
48773	48773-US-PAT	14/681822	2016/0301643	9871753	Granted
48776	48776-US-PAT	14/481808	2016/0073344	10560891	Granted
48777	48777-US-PAT	14/471536	2016/0066165	9369851	Granted
48778	48778-US-PCT	15/513398	2017/0311241	10321391	Granted
48778	48778-US-PRV	62/054868			Converted
48780	48780-US-PAT	14/609019	2016/0227416	10397794	Granted
48787	48787-US-PAT	14/523184	2016/0116993	9639172	Granted
48789	48789-US-PAT	14/542278	2016/0143085	10470238	Granted
48801	48801-US-CNT	15/425592	2017/0150515	9992787	Granted
48801	48801-US-PAT	14/542414	2016/0142920	9565568	Granted
48814	48814-US-CNT	15/427177	2017/0147620	10007688	Granted
48814	48814-US-PAT	14/579297	2016/0179893	9600524	Granted
48818	48818-US-PAT	14/639796	2016/0261430	10833892	Granted
48844	48844-US-CNT	15/880024	2018/0152872	10165485	Granted
48844	48844-US-PAT	14/555645	2016/0157150	9942816	Granted
48850	48850-US-PAT	15/809676	2019/0146897	10558550	Granted
48854	48854-US-PAT	14/494070	2016/0088662	9872319	Granted
48855	48855-US-PAT	14/688913	2016/0306507	10101877	Granted
48859	48859-US-PAT	14/812413	2017/0034681	10271182	Granted
48861	48861-US-PAT	14/625958	2016/0247045	9449260	Granted
48862	48862-US-PAT	14/486632	2016/0079652	10096887	Granted
48863	48863-US-PAT	14/870728	2016/0360435	9642030	Granted
48863-1	48863-1-US-PAT	14/870678	2016/0360474	9622160	Granted
48865	48865-US-PAT	14/486685	2016/0079653	9685693	Granted
48866	48866-US-PAT	14/486724	2016/0079654	9882266	Granted
48870	48870-US-PAT	14/682851	2016/0299588	10126846	Granted
48875	48875-US-PAT	14/992805	2017/0200324		Abandoned
48884	48884-US-PAT	14/633740	2016/0255549	10225771	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
48887	48887-US-PAT	14/590185	2015/0195349		Abandoned Decision
48887	48887-US-PRV	61/923831			Converted
48889	48889-US-PAT	14/717376	2015/0339463	9836587	Granted
48889	48889-US-PRV	62/000793			Converted
48890	48890-US-PAT	12/214902	2009/0227229	8311532	Granted
48891	48891-US-PAT	12/142816	2009/0318113	8452258	Granted
48893	48893-US-PAT	12/555648	2011/0059738	8725139	Granted
48894	48894-US-CNT	14/064545	2014/0050110	9065935	Granted
48894	48894-US-CNT[2]	14/746811	2015/0319316	9232079	Granted
48894	48894-US-CNT[3]	14/960956	2016/0094723	9467573	Granted
48894	48894-US-PAT	13/276029	2013/0095784	8594622	Granted
48895	48895-US-CNT	14/065144	2014/0128024	8874081	Granted
48895	48895-US-CNT[2]	14/500942	2015/0140959	9398458	Granted
48895	48895-US-CNT[3]	15/213178	2016/0330331	9819810	Granted
48895	48895-US-PAT	13/295856	2013/0122862	8571564	Granted
48896	48896-US-PAT	14/074167	2014/0128041	9392394	Granted
48896	48896-US-PRV	61/723586			Converted
48897	48897-US-PAT	14/794195	2017/0013539	10075925	Granted
48898	48898-US-PAT	14/699484	2016/0323811	10278117	Granted
48913	48913-US-PAT	14/538973	2016/0134572	9887942	Granted
48925	48925-US-CNT	16/529629	2019/0356666	10944751	Granted
48925	48925-US-PAT	14/691337	2017/0063534	10375070	Granted
48925-1	48925-1-US-PAT	14/691372	2017/0063535	10079675	Granted
48925-2	48925-2-US-CNT	16/449288	2019/0319783		Allowed (Notice of Allowance)
48925-2	48925-2-US-PAT	14/691383	2017/0063536	10361844	Granted
48931	48931-US-PAT	15/275656	2018/0091193	10128912	Granted
48938	48938-US-PAT	15/270807	2018/0084470	10321376	Granted
48944	48944-US-PAT	14/723900	2016/0352994	9706130	Granted
48947	48947-US-PAT	14/555431	2016/0147440	10503398	Granted
48952	48952-US-PAT	14/540889	2016/0142086	9729180	Granted
48957	48957-US-PAT	14/874344	2017/0097689	9746937	Granted
48967	48967-US-PAT	14/643736	2016/0269052	11211954	Granted
48974	48974-US-CNT	16/137062	2019/0028935	10827396	Granted
48974	48974-US-PAT	14/712480	2016/0337909	10104584	Granted
48981	48981-US-CNT	16/535614	2020/0034131		Publication of Application
48981	48981-US-PAT	14/632939	2016/0253159	10379829	Granted
48983	48983-US-PAT	14/680700	2016/0299682	10203870	Granted
48985	48985-US-PAT	14/632993	2016/0253641	9600810	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
48993	48993-US-PAT	14/996911		9622057	Granted
49000	49000-US-PAT	14/722882	2016/0353495	9674884	Granted
49002	49002-US-PAT	14/617623	2016/0142511	10015279	Granted
49002	49002-US-PRV	62/079404			Converted
49003	49003-US-PAT	14/691707	2016/0314087	9798684	Granted
49005	49005-US-CNT	16/723888	2020/0128466	11184828	Granted
49005	49005-US-CNT[2]	17/488848			Filing
49005	49005-US-PCT	15/564687	2018/0124674	10517033	Granted
49009	49009-US-CNT	15/664452	2017/0332311	10182391	Granted
49009	49009-US-CNT[2]	16/247130	2019/0150066	10764814	Granted
49009	49009-US-PAT	14/794208	2017/0013653	9723543	Granted
49010	49010-US-PAT	14/681495	2016/0302048	9955321	Granted
49033	49033-US-PAT	14/855124	2017/0075445	9880685	Granted
49039	49039-US-PAT	14/693440		9407304	Granted
49041	49041-US-PAT	14/826265	2017/0048526	9699461	Granted
49045	49045-US-PAT	14/845523	2017/0070346	9628275	Granted
49048	49048-US-PAT	14/689153	2016/0309251	9820029	Granted
49056	49056-US-PAT	14/703147	2016/0327627	9599694	Granted
49066	49066-US-PAT	14/739386	2016/0365082	9558731	Granted
49070	49070-US-CNT	15/247065	2017/0006571	9913236	Granted
49070	49070-US-PAT	14/788099		9451421	Granted
49085	49085-US-CNT	15/948439	2018/0295646	10638506	Granted
49085	49085-US-CNT[2]	16/859718	2020/0359408		Publication of Application
49085	49085-US-PAT	14/712779	2016/0338094	9942917	Granted
49085-1	49085-1-US-CNT	16/113687	2019/0082459		Allowed (Notice of Allowance)
49085-1	49085-1-US-PAT	14/712785	2016/0338095	10064212	Granted
49086	49086-US-PAT	14/754218	2016/0381526	10123182	Granted
49092	49092-US-PAT	14/926688	2017/0125032	9633672	Granted
49103	49103-US-CNT	16/809185	2020/0202307		Publication of Application
49103	49103-US-PAT	14/845455	2017/0068934		Abandoned
49104	49104-US-PAT	14/795794	2017/0010680	9696817	Granted
49109	49109-US-PAT	14/698543	2016/0323211		Abandoned
49113	49113-US-CNT	15/356158	2017/0070868	9628965	Granted
49113	49113-US-PAT	14/754023		9510166	Granted
49129	49129-US-PAT	14/746181	2016/0371479	10762189	Granted
49142	49142-US-CNT	16/823732	2020/0220938		Allowed (Notice of Allowance)
49142	49142-US-PAT	14/794191	2016/0226981	10623502	Granted
49142	49142-US-PRV	62/112013			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
49151	49151-US-PAT	14/742520	2016/0373275	10868696	Granted
49178	49178-US-PAT	14/814752	2017/0033823	9917609	Granted
49179	49179-US-CIP	14/856553	2016/0142088	9768815	Granted
49179	49179-US-CNT	15/707792	2018/0026668	10090874	Granted
49179	49179-US-CNT[2]	16/148903	2020/0107185	10667124	Granted
49205	49205-US-PAT	14/855632	2017/0078363	10484454	Granted
49211	49211-US-PAT	14/817547	2017/0041260		Appealed
49213	49213-US-PAT	14/924534	2017/0116293	10503742	Granted
49236	49236-US-PAT	15/256347	2018/0070231	10735954	Granted
49250	49250-US-PAT	14/873690	2017/0098097	9922206	Granted
49270	49270-US-PAT	14/796084	2017/0012919	9882856	Granted
49274	49274-US-PAT	15/092259	2017/0293417	10416861	Granted
49279	49279-US-PAT	14/834156	2017/0061166	9792462	Granted
49282	49282-US-PAT	14/725498	2016/0352918	9628633	Granted
49294	49294-US-PAT	15/160582	2017/0337176	10489506	Granted
49307	49307-US-PAT	14/737765	2016/0363911		Abandoned Decision
49313	49313-US-PAT	14/834512	2017/0061979	9721581	Granted
49315	49315-US-CNT	15/333578	2017/0134555	9667764	Granted
49315	49315-US-PAT	14/933090		9509361	Granted
49332	49332-US-PAT	14/922875	2017/0118238	9860266	Granted
49334	49334-US-CNT	15/828521	2018/0102991	10257131	Granted
49334	49334-US-PAT	14/751538	2016/0380931	9942180	Granted
49346	49346-US-PAT	14/824969	2017/0046378	10229137	Granted
49347	49347-US-PAT	14/824975	2017/0046149	10365912	Granted
49360	49360-US-CNT	16/799477	2020/0264869	10977029	Granted
49360	49360-US-PAT	14/824979	2017/0046150	10572248	Granted
49365	49365-US-PAT	14/824841	2017/0048119	10476993	Granted
49370	49370-US-PAT	15/230881	2018/0041626	10341483	Granted
49373	49373-US-PAT	14/949195	2017/0149827	10305933	Granted
49379	49379-US-PAT	15/132572	2017/0300769	10019639	Granted
49380	49380-US-PAT	15/132606	2017/0302822	10027850	Granted
49387	49387-US-PAT	14/924410		9503643	Granted
49388	49388-US-PAT	14/868759	2017/0091182	10496598	Granted
49394	49394-US-CNT	16/195092	2019/0090112	11064331	Granted
49394	49394-US-PAT	14/812796	2017/0034644	10142819	Granted
49398	49398-US-PAT	15/157976	2017/0337388	10176334	Granted
49425	49425-US-PAT	15/018643	2017/0230369	9961082	Granted
49429	49429-US-PAT	11/697700	2007/0240155	7913252	Granted
49429	49429-US-PAT[2]	11/697702	2007/0239983	8332940	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
49430	49430-US-CIP	12/548900	2010/0070971	8578367	Granted
49430	49430-US-CNT	16/282931	2019/0187969	10853047	Granted
49430	49430-US-PAT	12/419030	2009/0254899	10248398	Granted
49431	49431-US-CNT	14/859439	2016/0011858	9811326	Granted
49431	49431-US-CNT[2]	15/804922	2018/0060056	10540160	Granted
49431	49431-US-PAT	12/419165	2009/0254927	9141934	Granted
49432	49432-US-PAT	12/419072	2009/0254587	8078649	Granted
49433	49433-US-DIV	13/294411	2012/0059793	8630978	Granted
49433	49433-US-PAT	12/419037	2009/0254590	8078577	Granted
49437	49437-US-CNT	14/620638	2015/0180938	9948677	Granted
49437	49437-US-CNT[2]	14/620645	2015/0180905	10075473	Granted
49437	49437-US-CNT[3]	16/126023	2019/0007460	10505988	Granted
49437	49437-US-PAT	13/585534	2014/0053227	8984582	Granted
49452	49452-US-PAT	15/157842	2017/0337902	10115374	Granted
49464	49464-US-PAT	14/935304	2017/0115994	10248434	Granted
49464	49464-US-PRV	62/247141			Converted
49475	49475-US-PAT	15/173860	2017/0353503	11108833	Granted
49480	49480-US-PAT	14/862143	2017/0086047	10326544	Granted
49500	49500-US-CNT	16/531293	2019/0364581	10798724	Granted
49500	49500-US-PAT	14/824723	2017/0048880	10375714	Granted
49504	49504-US-CNT	16/190909	2019/0082020	11070633	Granted
49504	49504-US-PAT	14/851368	2017/0078408	10148769	Granted
49509	49509-US-PAT	14/842865	2017/0064298		Abandoned
49524	49524-US-PAT	14/830319	2017/0054667	10397160	Granted
49543	49543-US-CNT	15/968980	2018/0249336	10939294	Granted
49543	49543-US-PAT	14/824898	2017/0048702	9980133	Granted
49546	49546-US-PAT	14/957921	2017/0163643	9866558	Granted
49565	49565-US-CIP	15/148067	2016/0249218		Abandoned
49572	49572-US-CNT	15/679927	2017/0347225	10200841	Granted
49572	49572-US-CNT[2]	16/266421	2019/0174282	10560828	Granted
49572	49572-US-CNT[3]	16/745276	2020/0154252	10979880	Granted
49572	49572-US-PAT	14/834216	2017/0064487	9769592	Granted
49578	49578-US-CNT	16/678714	2020/0077330	10764823	Granted
49578	49578-US-CNT[2]	16/987642	2021/0014779		Publication of Application
49578	49578-US-PAT	15/230912	2018/0041944	10477462	Granted
49583	49583-US-PAT	14/928515	2017/0116427	10360396	Granted
49583	49583-US-PRV	62/247148			Converted
49591	49591-US-PAT	14/924668	2017/0118157	10033680	Granted
49596	49596-US-PAT	15/048489	2017/0242983	10754929	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
49619	49619-US-PAT	09/872859		7284045	Granted
49620	49620-US-PAT	09/884531	2002/0194281	7444375	Granted
49621	49621-US-PAT	09/896054	2003/0003935	7389118	Granted
49622	49622-US-PAT	09/902060	2003/0006919	7064688	Granted
49623	49623-US-PAT	10/056313		6741232	Granted
49624	49624-US-PAT	10/107032		7788382	Granted
49625	49625-US-PAT	10/114548		6726106	Granted
49626	49626-US-PAT	10/117492		8094591	Granted
49626	49626-US-PRV	60/365413			Converted
49627	49627-US-PAT	10/164819		6727856	Granted
49628	49628-US-PAT	10/174715		7032181	Granted
49628	49628-US-PAT[2]	10/252622			Abandoned
49629	49629-US-PAT	10/191093		8516034	Granted
49630	49630-US-PAT	10/236003		7454459	Granted
49630	49630-US-PRV	60/317372			Converted
49631	49631-US-PAT	10/430943	2004/0225693	7275073	Granted
49632	49632-US-PAT	10/434138	2004-0224675	7890091	Granted
49633	49633-US-PAT	10/434967	2004/0224723	7840631	Granted
49633	49633-US-REI	13/684021			Abandoned
49634	49634-US-PAT	10/436298	2004/0229654	7184801	Granted
49635	49635-US-PAT	13/087322	2011/0276805	9135434	Granted
49635	49635-US-PRV	61/342790			Converted
49637	49637-US-CNT	15/068081	2016/0197930	9742777	Granted
49637	49637-US-PAT	13/955622	2015/0040246	9305162	Granted
49638	49638-US-PAT	10/721449	2005/0114120	7039394	Granted
49639	49639-US-PAT	10/964912	2006/0077940	7620001	Granted
49641	49641-US-CNT	12/577428	2010/0173622	8078157	Reissued (Inactive Parent)
49641	49641-US-PAT	11/363582		7620392	Granted
49641	49641-US-REI	14/106534		RE46,355	Granted
49643	49643-US-PAT	10/923650	2006/0041600	7672978	Granted
49646	49646-US-PAT	14/263836	2015/0312249	9996686	Granted
49647	49647-US-PAT	11/146820		7590403	Granted
49650	49650-US-CNT	13/845435	2013/0238763		Abandoned
49650	49650-US-CNT[2]	14/973290	2016/0105522	10038755	Granted
49650	49650-US-CNT[3]	16/048456	2018/0338012	10389831	Granted
49650	49650-US-PAT	13/025984	2012/0210415	8407776	Granted
49651	49651-US-CNT	14/567992	2015/0094043	9578488	Granted
49651	49651-US-PAT	12/554428	2010/0144323	8942675	Granted
49651	49651-US-PRV	61/094450			Converted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
49652	49652-US-CNT	13/183138	2011/0270799	8429128	Granted
49652	49652-US-CNT[2]	13/847621	2013/0232112	9158829	Granted
49652	49652-US-PAT	11/261529		8001082	Granted
49652	49652-US-PRV	60/622813			Converted
49654	49654-US-CNT	12/770936	2010/0273456	8150431	Granted
49654	49654-US-PRV	60/985354			Converted
49660	49660-US-PAT	08/766307		6131116	Expired
49660	49660-US-REX	90/010498			Re-Examination Certificate Issued
49660-1	49660-1-US-CNT	09/179252		5968131	Expired
49660-1	49660-1-US-PAT	08/835997		6085192	Expired
49660-1	49660-1-US-REX	90/010242			Re-Examination Certificate Issued
49660-1	49660-1-US-REX[2]	90/010259			Re-Examination Certificate Issued
49660-1	49660-1-US-REX[3]	90/010442			Abandoned
49660-1	49660-1-US-REX[4]	90/008062			Re-Examination Certificate Issued
49660-1	49660-1-US-REX[5]	90/007040			Abandoned
49660-1	49660-1-US-REX[6]	90/007093			Re-Examination Certificate Issued
49660-2	49660-2-US-PAT	08/841950		7287271	Expired
49660-2	49660-2-US-REX	90/010499			Abandoned
49660-3	49660-3-US-CIP	08/897888		5961590	Expired
49660-3	49660-3-US-PAT	08/865075		6023708	Expired
49660-3	49660-3-US-REX	90/010495			Re-Examination Certificate Issued
49660-3	49660-3-US-REX[2]	90/007421			Re-Examination Certificate Issued
49660-3	49660-3-US-REX[3]	90/007933			Re-Examination Certificate Issued
49660-4	49660-4-US-CIP	08/899277		6766454	Expired
49660-5	49660-5-US-CIP	08/903118			Abandoned
49660-5	49660-5-US-CNT	09/666877		6708221	Expired
49660-5	49660-5-US-CNT[10]	12/489318	2010/0005125	8812702	Expired
49660-5	49660-5-US-CNT[11]	12/489326	2010/0005195	8117344	Expired
49660-5	49660-5-US-CNT[2]	10/741113	2004/0139178	7039679	Expired
49660-5	49660-5-US-CNT[3]	11/340083	2006/0195595		Abandoned
49660-5	49660-5-US-CNT[4]	12/480500	2009/0307362	8745167	Expired
49660-5	49660-5-US-CNT[5]	12/575387	2010/0023630		Abandoned
49660-5	49660-5-US-CNT[6]	13/038801	2011/0153779	9361603	Expired
49660-5	49660-5-US-CNT[7]	09/921228	2002/0035618	7225231	Granted
49660-5	49660-5-US-CNT[8]	11/693323	2007/0174433		Abandoned
49660-5	49660-5-US-CNT[9]	12/558208	2010/0005157		Abandoned

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
49660-5	49660-5-US-REX	90/008131			Re-Examination Certificate Issued
49660-5	49660-5-US-REX[2]	90/008162			Re-Examination Certificate Issued
49660-5	49660-5-US-REX[3]	90/008397			Re-Examination Certificate Issued
49660-5	49660-5-US-REX[4]	90/008981			Re-Examination Certificate Issued
49660-5	49660-5-US-REX[5]	90/010299			Re-Examination Certificate Issued
49660-5	49660-5-US-REX[6]	95/001086			Re-Examination Certificate Issued
49661	49661-US-PAT	09/872753	2002/0199061	7228383	Cancelled in Re-Examination
49661	49661-US-REI	12/805448			Abandoned
49661	49661-US-REX	95/000332			Re-Examination Certificate Issued
49661-1	49661-1-US-CIP	10/425981	2004/0024910		Abandoned
49661-1	49661-1-US-CNT	11/872633	2008/0037593	8412805	Expired
49661-1	49661-1-US-CNT[2]	12/900128	2011/0246587	9407695	Expired
49661-1	49661-1-US-PRV	60/376962			Converted
49662	49662-US-PAT	10/133817	2003/0204624	7447799	Granted
49664	49664-US-CNT	13/113478	2011/0225252	8351908	Granted
49664	49664-US-CNT[2]	13/728625	2013/0117445	8849257	Granted
49664	49664-US-CNT[3]	14/472229	2014/0370860	9432871	Granted
49664	49664-US-PAT	11/145391	2006/0277408	7970386	Granted
49665	49665-US-PAT	11/363583		7702322	Granted
49667	49667-US-CNT	12/017536	2008/0133712		Abandoned
49667	49667-US-CNT[2]	12/708277	2010/0146072	8041776	Granted
49667	49667-US-CNT[3]	13/225786	2011/0320552	8478829	Granted
49667	49667-US-CNT[4]	13/923885	2013/0282849	9059956	Granted
49667	49667-US-PAT	10/770841	2005/0027818	7363349	Granted
49667	49667-US-PRV	60/444213			Converted
49667	49667-US-REX	95/001138			Re-Examination Certificate Issued
49668	49668-US-PAT	10/292086	2003-0115301	7376697	Granted
49669	49669-US-CNT	12/796969	2010/0268844	8069144	Granted
49669	49669-US-DIV	12/645799	2010/0100641	8255359	Granted
49669	49669-US-PAT	10/295702	2003/0130984	7752166	Granted
49669	49669-US-PRV	60/336326			Converted
49670	49670-US-PAT	10/410881	2004-0006551	7590629	Granted
49671	49671-US-PAT	10/785423	2005/0198352		Abandoned
49672	49672-US-PAT	12/791749	2011/0296186	9350708	Granted
49673	49673-US-CNT	14/724606	2015/0261515	9600257	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
49673	49673-US-PAT	13/277051	2013/0104118	9110750	Granted
49674	49674-US-PAT	13/299304	2013/0132473	9489530	Granted
49676	49676-US-PAT	13/216962	2012/0054296	9621405	Granted
49676	49676-US-PRV	61/376433			Converted
49677	49677-US-PAT	14/093005	2015/0150025	9361163	Granted
49677	49677-US-PCT	15/039976	2018/0203995	10762204	Granted
49679	49679-US-CNT	14/977531	2016/0110538	9646152	Granted
49679	49679-US-PAT	13/896543	2014/0344922		Abandoned
49680	49680-US-PAT	13/034493	2012/0219133	9547846	Abandoned
49681	49681-US-CIP	13/690834	2013/0336235	8825002	Granted
49681	49681-US-CNT	14/037602	2014/0022954		Abandoned
49681	49681-US-CNT[2]	14/037987	2014/0023026		Abandoned
49681	49681-US-CNT[3]	14/038180			Abandoned
49681	49681-US-CNT[4]	14/038389	2014/0025503		Abandoned
49681	49681-US-CNT[5]	14/952835	2016/0077693	10133450	Granted
49681	49681-US-PAT	13/369055	2012/0202449	8594618	Granted
49681	49681-US-PRV	61/440471			Converted
49681	49681-US-PRV[2]	61/563234			Converted
49683	49683-US-CNT	14/951350	2016/0080514	9813514	Granted
49683	49683-US-PAT	10/171048			Abandoned
49685	49685-US-PAT	12/829157	2012/0005578	9558476	Granted
49686	49686-US-PAT	14/965748	2016/0173281	9935767	Granted
49686	49686-US-PRV	62/101772			Converted
49688	49688-US-CNT	13/865552	2013/0232126	9110915	Granted
49688	49688-US-PAT	13/049095	2011/0231374	8452739	Granted
49688	49688-US-PRV	61/314293			Converted
49689	49689-US-PAT	13/101962	2012/0284786	9130935	Granted
49690	49690-US-CNT	14/852171	2015/0381714	10375149	Granted
49690	49690-US-PRV	61/782511			Converted
49691	49691-US-PCT	15/315360	2017/0126408	9979546	Granted
49691	49691-US-PRV	62/005725			Converted
49692	49692-US-CIP	14/599310	2015/0127708	9667707	Granted
49692	49692-US-CNT	15/581130	2017/0230468	10555147	Granted
49692	49692-US-PRV	61/672457			Converted
49693	49693-US-PAT	13/047273	2011/0225141	9135264	Granted
49693	49693-US-PRV	61/313316			Converted
49694	49694-US-PAT	13/838446	2013/0268775	9740884	Granted
49694	49694-US-PRV	61/622168			Converted
49695	49695-US-PCT	12/294708	2011/0113062	9489422	Granted
49695	49695-US-PRV	60/788006			Converted

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49696	49696-US-CIP	12/975145	2011/0145932	8984657	Granted
49696	49696-US-CNT	14/872647	2016/0028853	9544398	Granted
49696	49696-US-PAT	12/876214	2011/0082900	9185554	Granted
49696	49696-US-PRV	61/276129			Converted
49697	49697-US-CNT	15/249656	2017/0052878	10204031	Granted
49697	49697-US-PAT	12/032093	2008/0201453	9451009	Granted
49697	49697-US-PRV	60/890502			Converted
49698	49698-US-PAT	13/780283	2013/0227280	9319219	Granted
49698	49698-US-PRV	61/604919			Converted
49699	49699-US-PCT	15/513666	2017/0310480	10756899	Granted
49699	49699-US-PRV	62/055857			Converted
49700	49700-US-PCT	10/553721	2007/0130255	7912896	Granted
49708	49708-US-PAT	15/135849	2017/0308695	10055575	Granted
49710	49710-US-PAT	15/056292	2017/0249454	10061913	Granted
49711	49711-US-PAT	15/141473	2017/0315711	10359924	Granted
49712	49712-US-PAT	15/131489	2017/0302639	10630665	Granted
49726	49726-US-PAT	15/003058	2017/0213305		Abandoned
49745	49745-US-PAT	15/266336	2018/0074547	10122184	Granted
49755	49755-US-PAT	15/051501	2017/0242484	10503257	Granted
49756	49756-US-PAT	14/925851	2017/0126778	10122786	Granted
49757	49757-US-PAT	15/242680	2018/0053995	10277494	Granted
49759	49759-US-CNT	15/874424	2018/0227790	10334470	Granted
49759	49759-US-CNT[2]	16/448146	2019/0313274	11134408	Granted
49759	49759-US-PAT	14/874938	2017/0099614	9877224	Granted
49760	49760-US-PAT	15/335124	2017/0118203	9800578	Granted
49760	49760-US-PRV	62/247164			Converted
49766	49766-US-PAT	15/390066		9894265	Granted
49768	49768-US-PAT	14/974651	2017/0180757		Abandoned
49769	49769-US-PAT	14/974691	2017/0180732	10142635	Granted
49773	49773-US-PAT	15/335347	2017/0118610	10952087	Granted
49773	49773-US-PRV	62/247149			Converted
49774	49774-US-PAT	15/335355	2017/0118611	10764860	Granted
49774	49774-US-PRV	62/247154			Converted
49775	49775-US-PAT	15/152926	2017/0329589	10489134	Granted
49776	49776-US-PAT	15/335365	2018/0115579	10567416	Granted
49786	49786-US-PAT	14/934857	2017/0116413	10255433	Granted
49786	49786-US-PRV	62/247131			Converted
49791	49791-US-PAT	14/934880	2017/0116400	9805180	Granted
49791	49791-US-PRV	62/247097			Converted
49805	49805-US-PAT	14/927762	2017/0118394	10212330	Granted

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49805	49805-US-PRV	62/247158			Converted
49806	49806-US-PAT	14/928035	2017/0118395	9854150	Granted
49806	49806-US-PRV	62/247163			Converted
49823	49823-US-PAT	15/060466	2017/0257360	10305885	Granted
49824	49824-US-PAT	15/131450	2017/0303133	10531303	Granted
49836	49836-US-PAT	15/445308	2018/0248859	10715506	Granted
49837	49837-US-PAT	15/226755	2018/0039682	10977273	Granted
49843	49843-US-PAT	14/935238	2017/0118014	9917693	Granted
49843	49843-US-PRV	62/247153			Converted
49849	49849-US-CNT	15/875240	2018/0146422	10231178	Granted
49849	49849-US-CNT[2]	16/268701	2019/0174403	10757644	Granted
49849	49849-US-CNT[3]	16/931746	2020/0351768		Allowed (Notice of Allowance)
49849	49849-US-PAT	14/987897	2017/0195947	9877275	Granted
49850	49850-US-CNT	16/750396	2020/0158510	11156463	Granted
49850	49850-US-CNT[2]	17/483930			Filing
49850	49850-US-PAT	14/987928	2017/0191836	10571272	Granted
49851	49851-US-PAT	15/155142	2017/0329953	10248781	Granted
49854	49854-US-CNT	16/866426	2020/0265389		Publication of Application
49854	49854-US-PAT	15/214341	2018/0025327	10643186	Granted
49858	49858-US-PAT	15/154218	2017/0331628	10181951	Granted
49860	49860-US-PAT	15/058545	2017/0257819		Publication of Application
49862	49862-US-PAT	15/091520	2017/0289190	10200396	Granted
49873	49873-US-CNT	16/164965	2020/0186345	10841092	Granted
49873	49873-US-CNT[2]	17/069297	2021/0028937		Publication of Application
49873	49873-US-PAT	15/145428	2017/0324556	10129026	Granted
49874	49874-US-CNT	16/905633	2020/0323000		Allowed (Notice of Allowance)
49874	49874-US-CNT[2]				Filing Requested
49874	49874-US-PCT	16/070718	2019/0029058	10716152	Granted
49874	49874-US-PRV	62/286178			Converted
49875	49875-US-PAT	14/995932	2017/0208469	10149166	Granted
49878	49878-US-CNT	16/376332	2019/0230586	10912017	Granted
49878	49878-US-CNT[2]	17/110040	2021/0092675		Publication of Application
49878	49878-US-PAT	15/254018	2017/0135031	10425887	Granted
49878	49878-US-PRV	62/253636			Converted
49882	49882-US-PAT	15/073347	2017/0272256	10270603	Granted
49888	49888-US-PAT	15/374660	2017/0169118	10725618	Granted
49888	49888-US-PRV	62/266463			Converted

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49890	49890-US-PRV	61/968907			Converted
49891	49891-US-CNT	14/812756	2015/0334105	9807075	Granted
49891	49891-US-PRV	61/758010			Converted
49893	49893-US-PAT	11/186419	2006/0015480		Abandoned
49893	49893-US-PRV	60/589355			Converted
49894	49894-US-PAT	12/642033	2010/0161685	8589455	Granted
49894	49894-US-PAT[2]	12/642023	2010/0161608	7925683	Granted
49894	49894-US-PRV	61/138827			Converted
49896	49896-US-PAT	14/264276	2015/0309849	9645861	Granted
49897	49897-US-PCT	15/036998	2016/0277400	10148651	Granted
49897	49897-US-PRV	61/905127			Converted
49898	49898-US-PAT	13/105478	2012/0036498	9158650	Granted
49898	49898-US-PRV	61/370482			Converted
49899	49899-US-PCT	15/513714	2017/0302976	10448066	Granted
49899	49899-US-PRV	62/055116			Converted
49900	49900-US-PAT	11/642363		9258405	Granted
49903	49903-US-PAT	15/007547	2017/0214530		Publication of Application
49904	49904-US-PAT	15/013438	2017/0220331	10599409	Granted
49906	49906-US-CNT	13/870908	2013/0235803	9094832	Granted
49906	49906-US-CNT[2]	14/747845	2015/0296414	9456381	Granted
49906	49906-US-PAT	13/019241	2011/0188408	8483090	Granted
49907	49907-US-PAT	12/765595	2010/0272001	8553726	Granted
49909	49909-US-CNT	13/774860	2013/0170455	8856606	Granted
49909	49909-US-PAT	12/457596	2010/0031117	8412999	Granted
49911	49911-US-PCT	12/865992	2011/0002290	8509168	Granted
49991	49991-US-PAT	15/380791	2018/0173883	10754962	Granted
49996	49996-US-PAT	15/016887	2017/0230673	10778989	Granted
49998	49998-US-PAT	15/148718	2017/0324565	10326603	Granted
49999	49999-US-PAT	15/057426	2017/0257716	9872117	Granted
50008	50008-US-PAT	14/963125	2017/0163067	10063080	Granted
50010	50010-US-PAT	15/136196	2017/0311142	10477378	Granted
50011	50011-US-PAT	15/263856	2018/0077555	10405167	Granted
50016	50016-US-PAT	15/295132	2018/0108059		Publication of Application
50018	50018-US-DIV	15/948033	2018/0226719		Abandoned
50018	50018-US-PAT	15/136424	2017/0310012		Abandoned
50021	50021-US-CNT	16/055674	2018/0373886	10733310	Granted
50021	50021-US-CNT[2]	16/926361	2020/0342130		Publication of Application
50021	50021-US-PAT	15/093183	2017/0293769	10043021	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
50022	50022-US-PAT	15/251227	2018/0063812	9955454	Granted
50024	50024-US-PAT	15/413221	2018/0210639	10359930	Granted
50026	50026-US-CNT	15/830208	2018/0092006	10104586	Granted
50026	50026-US-PAT	15/256301		9838923	Granted
50028	50028-US-PAT	15/247261	2018/0059808	10248161	Granted
50029	50029-US-PAT	15/063954	2017/0264477	9998315	Granted
50032	50032-US-PAT	15/160126	2017/0339727	10159101	Granted
50034	50034-US-CNT	16/037820	2019/0014447	10327113	Granted
50034	50034-US-PAT	15/224426	2018/0035267	10028110	Granted
50036	50036-US-CIP	15/415627	2017/0134444		Allowed (Notice of Allowance)
50036	50036-US-PRV	62/286739			Converted
50037	50037-US-CNT	17/188245	2021/0185678		Publication of Application
50037	50037-US-PAT	15/261023	2018/0077708	10973026	Granted
50045	50045-US-PAT	15/237477	2018/0046816	10410006	Granted
50048	50048-US-PAT	15/247734	2018/0063050	10637809	Granted
50050	50050-US-PAT	15/231648	2018/0041457	10574611	Granted
50063	50063-US-CNT	16/208124	2019/0110227	10757613	Granted
50063	50063-US-PAT	15/154306	2017/0332286	10149209	Granted
50086	50086-US-PAT	15/435022	2017/0235469		Publication of Application
50086	50086-US-PRV	62/296414			Converted
50087	50087-US-PAT	15/382010	2018/0176366	10771974	Granted
50089	50089-US-PAT	15/239346	2018/0053350	10290151	Granted
50091	50091-US-PAT	15/247667		9813100	Granted
50096	50096-US-PAT	15/374583	2018/0165472	10579820	Granted
50099	50099-US-PAT	15/256241	2018/0068133	10572690	Granted
50100	50100-US-PAT	15/381942	2018/0173868	10402558	Granted
50104	50104-US-PAT	15/257496	2018/0069853	10430571	Granted
50105	50105-US-PAT	15/208929	2018/0018161		Abandoned Decision
50107	50107-US-PAT	15/378804	2018/0165473	10318758	Granted
50109	50109-US-PAT	15/373715	2018/0167380	10728237	Granted
50111	50111-US-CNT	16/586625	2020/0026636	11068377	Granted
50111	50111-US-PAT	15/725250	2019/0102277	10430315	Granted
50112	50112-US-PAT	15/649189	2018/0018253	10664377	Granted
50112	50112-US-PRV	62/362978			Converted
50115	50115-US-PAT	15/400346	2018/0198600	10361839	Granted
50116	50116-US-CNT	17/108162	2021/0084469		Publication of Application
50116	50116-US-PAT	15/094819	2017/0295448	10873842	Granted

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50121	50121-US-PAT	15/288368	2018/0101388	10846099	Granted
50122	50122-US-PAT	15/288377	2018/0103029	10691447	Granted
50124	50124-US-PAT	15/445872	2018/0248693	10693639	Granted
50125	50125-US-PAT	15/097062	2017/0293401	10338775	Granted
50126	50126-US-PAT	15/419515		9954803	Granted
50128	50128-US-PAT	15/448668	2018/0255143	10432733	Granted
50146	50146-US-PAT	15/096677	2017/0295156	10277572	Granted
50153	50153-US-PAT	15/288897	2018/0101422	11106805	Granted
50155	50155-US-PAT	15/148571	2017/0324737	10305901	Granted
50165	50165-US-PAT	15/342097	2018/0121397		Abandoned
50176	50176-US-CNT	16/017164	2018/0310270	10506540	Granted
50176	50176-US-PAT	15/194208	2017/0374635	10009865	Granted
50183	50183-US-PAT	15/614078	2018/0349348		Appealed
50184	50184-US-PAT	15/178315	2017/0359341	10650152	Granted
50185	50185-US-PAT	15/445446	2018/0246519	10386848	Granted
50187	50187-US-PAT	15/254654	2018/0060809		Publication of Application
50192	50192-US-PAT	15/225252	2018/0032968	10366369	Granted
50195	50195-US-PAT	15/254722	2018/0060810		Publication of Application
50205	50205-US-PAT	15/255960	2018/0069699	10341102	Granted
50208	50208-US-PAT	15/424201	2017/0347220	10834554	Granted
50208	50208-US-PRV	62/340934			Converted
50217	50217-US-PAT	15/729232	2018/0109860	10616242	Granted
50224	50224-US-CNT	16/921507	2020/0336970		Publication of Application
50224	50224-US-PAT	15/333859	2018/0115938	10750432	Granted
50225	50225-US-PAT	15/628226	2017/0374185	10135962	Granted
50225	50225-US-PRV	62/355670			Converted
50226	50226-US-PAT	15/336857	2018/0124419	10165300	Granted
50227	50227-US-PAT	15/849298	2019/0190895	10880274	Granted
50228	50228-US-PAT	15/264942	2018/0019518	10320081	Granted
50228	50228-US-PRV	62/361552			Converted
50232	50232-US-PAT	15/342865	2018/0123856	10212014	Granted
50244	50244-US-CNT	17/184798	2021/0192445		Publication of Application
50244	50244-US-PAT	15/372367	2018/0158019	10936990	Granted
50245	50245-US-PCT	16/328099	2019/0190775	10862746	Granted
50245	50245-US-PRV	62/379424			Converted
50247	50247-US-PAT	15/417904	2018/0217848		Publication of Application
50253	50253-US-DIV	16/385605	2019/0268763	10965450	Granted

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50253	50253-US-PAT	15/270957	2018/0084412	10285051	Granted
50258	50258-US-CNT	16/860673	2020/0259853		Publication of Application
50258	50258-US-PAT	15/692836	2019/0068625	10681072	Granted
50263	50263-US-PAT	15/679511	2019/0057204	10474805	Granted
50267	50267-US-CNT	17/501068			Filing
50267	50267-US-PAT	16/181755	2020/0145464	11178190	Granted
50268	50268-US-PAT	15/419281	2018/0218222	10534964	Granted
50270	50270-US-CNT	17/231449	2021/0234680		Publication of Application
50270	50270-US-PAT	15/485786	2018/0302219	10985915	Granted
50272	50272-US-PAT	15/728832		10038696	Granted
50276	50276-US-PAT	15/382020	2018/0176217	10454929	Granted
50282	50282-US-CNT	15/995416	2018/0279129	10264453	Granted
50282	50282-US-PAT	15/342973	2018/0124601	10009768	Granted
50284	50284-US-PAT	15/365172	2018/0152838		Publication of Application
50290	50290-US-PAT	15/702398	2019/0080112	10628606	Granted
50290-1	50290-1-US-PAT	15/702404	2019/0080105	10719614	Granted
50296	50296-US-PAT	15/388479	2018/0178797	10906545	Granted
50297	50297-US-PAT	15/388491	2018/0181126	10338588	Granted
50299	50299-US-PAT	15/453453	2018/0260581	10387675	Granted
50300	50300-US-PAT	15/453537	2018/0260577	10754965	Granted
50302	50302-US-CNT	16/538363	2019/0364506	10893475	Granted
50302	50302-US-PAT	15/583528	2018/0317172	10383058	Granted
50303	50303-US-PAT	15/666068	2019/0044925	10616193	Granted
50304	50304-US-PAT	15/402769	2018/0199052	10291928	Granted
50307	50307-US-PAT	15/470259	2018/0278416	10355859	Granted
50311	50311-US-PAT	15/722764	2019/0104123	10841305	Granted
50312	50312-US-PAT	15/784523		10158978	Granted
50314	50314-US-CNT	16/391873	2019/0253859	11032686	Granted
50314	50314-US-PAT	15/448100	2018/0255422	10313860	Granted
50315	50315-US-PAT	15/467595	2018/0276609	10628782	Granted
50317	50317-US-CNT	16/547145	2020/0051344	10937254	Granted
50317	50317-US-PAT	15/456974	2018/0257653	10395437	Granted
50319	50319-US-CNT	16/242514	2019/0140875	10476715	Granted
50319	50319-US-PAT	15/451071	2018/0254933	10212009	Granted
50322	50322-US-PAT	15/486985	2018/0297607	11104351	Granted
50323	50323-US-CNT	16/704095	2020/0108838		Publication of Application
50323	50323-US-PAT	15/486990	2018/0297608	10569786	Granted
50327	50327-US-PAT	15/684082	2019/0066401	10559139	Granted

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50329	50329-US-PAT	15/869133	2019/0222419	10693641	Granted
50331	50331-US-CNT	16/227704	2019/0123964		Publication of Application
50331	50331-US-PAT	15/499526	2018/0316562	10171304	Granted
50334	50334-US-PAT	15/906117	2019/0037360	10880692	Granted
50334	50334-US-PRV	62/464977			Converted
50335	50335-US-PAT	15/962871	2018/0324571		Allowed (Notice of Allowance)
50336	50336-US-CNT	16/528218	2020/0045508	11057747	Granted
50336	50336-US-PAT	15/619208	2018/0359612	10375530	Granted
50337	50337-US-CNT	16/832750	2020/0229251	11191117	Granted
50337	50337-US-CNT[1]	17/519076			Filing
50337	50337-US-PAT	15/661845	2018/0368191	10616940	Granted
50338	50338-US-PAT	15/660749	2019/0037518	10736070	Granted
50339	50339-US-PAT	15/669656	2019/0044980	11128673	Granted
50340	50340-US-CNT	16/798813	2020/0196312	11197296	Granted
50340	50340-US-PAT	15/865415	2018/0332585	10575304	Granted
50341	50341-US-PCT	16/613914	2021/0067967	11146408	Granted
50346	50346-US-CNT	17/026790	2021/0006754	11212493	Granted
50346	50346-US-PAT	15/468898	2018/0278897	10785458	Granted
50352	50352-US-CNT	16/906010	2020/0322770		Allowed (Notice of Allowance)
50352	50352-US-PAT	15/455819	2018/0262865	10893400	Granted
50353	50353-US-PAT	15/714630	2019/0096243	10885781	Granted
50359	50359-US-PAT	15/467865	2018/0278566	10812434	Granted
50362	50362-US-CNT	16/749589	2020/0160553		Publication of Application
50362	50362-US-PAT	15/656397	2019/0026915	10546384	Granted
50364	50364-US-PAT	15/683607	2019/0064990	10871851	Granted
50368	50368-US-PAT	15/631354	2018/0374431	10347193	Granted
50370	50370-US-CNT	16/220966	2019/0141510	10499234	Granted
50370	50370-US-CNT[2]	16/696901	2020/0100085	10771952	Granted
50370	50370-US-CNT[3]	17/013304	2021/0058761		Publication of Application
50370	50370-US-PAT	15/714497	2018/0288582	10165432	Granted
50370	50370-US-PRV	62/481053			Converted
50376	50376-US-PAT	15/685571	2019/0065714	10534899	Granted
50377	50377-US-PAT	15/730558	2019/0110018	10368029	Granted
50384	50384-US-PAT	15/782740	2019/0114073		Abandoned
50385	50385-US-CNT	16/601147	2020/0041383		Allowed (Notice of Allowance)
50385	50385-US-PAT	15/664024	2019/0033172	10451526	Granted
50396	50396-US-PAT	15/666284	2019/0042787		Abandoned

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50410	50410-US-PAT	15/799913	2019/0130075	11043299	Granted
50411	50411-US-PAT	15/913189		10346790	Granted
50412	50412-US-PAT	15/689638	2019/0065767	10445519	Granted
50415	50415-US-PAT	15/844181	2019/0188409	11055431	Granted
50418	50418-US-CNT	16/814690	2020/0213927	10993161	Granted
50418	50418-US-PAT	15/725563	2019/0110238	10631224	Granted
50433	50433-US-CNT	17/175019	2021/0168576		Publication of Application
50433	50433-US-PAT	15/730447	2019/0110154	10952052	Granted
50448	50448-US-PAT	15/900555	2019/0260712	11108739	Granted
50449	50449-US-PAT	15/801891	2019/0129559	10908727	Granted
50454	50454-US-PAT	15/879928	2019/0230504		Appealed
50459	50459-US-CNT	17/527061			Filing
50459	50459-US-PAT	15/816607	2019/0159115	11202253	Granted
50460	50460-US-CNT	17/185541	2021/0203725		Publication of Application
50460	50460-US-PAT	15/969956	2019/0342394	10965757	Granted
50461	50461-US-PAT	16/256538	2019/0349858	11071062	Granted
50463	50463-US-PAT	16/149732	2020/0103269		Publication of Application
50464	50464-US-PAT	15/905394	2019/0268167	10797890	Granted
50465	50465-US-PAT	15/869824	2019/0222569	10771450	Granted
50466	50466-US-CNT	16/991369	2020/0371775		Publication of Application
50466	50466-US-PAT	15/869868	2019/0220265	10776096	Granted
50468	50468-US-CNT	16/921461	2020/0334031	11119756	Granted
50468	50468-US-PAT	16/054004	2020/0042301	10719309	Granted
50474	50474-US-CNT	16/706426	2020/0120587	11082913	Granted
50474	50474-US-PAT	15/891096	2019/0246344	10512034	Granted
50475	50475-US-PAT	15/827930		10175301	Granted
50477	50477-US-PAT	15/812758	2019/0147169	10846412	Granted
50478	50478-US-PAT	15/816845	2019/0156044	10515222	Granted
50487	50487-US-PAT	15/901583	2019/0256091	10882521	Granted
50491	50491-US-PAT	15/969259	2019/0339082		Publication of Application
50497	50497-US-CNT	17/506549			Filing
50497	50497-US-PAT	16/145834	2020/0106624	11184178	Granted
50498	50498-US-PAT	16/042837	2020/0029268	10880812	Granted
50500	50500-US-PAT	15/906615	2019/0268367	11108804	Granted
50504	50504-US-PCT	16/955513	2021/0004992		Publication of Application
50504	50504-US-PRV	62/619475			No Further Filings
50506	50506-US-PAT	15/923750		10305532	Granted

BB Family ID	BB Case ID	Filing Num.	Pub Num.	Granted Num.	Current Status
50509	50509-US-PAT	15/948314	2019/0313205	10735894	Granted
50513	50513-US-PAT	15/948210	2019/0312738		Allowed (Notice of Allowance)
50535	50535-US-PAT	15/948265	2019/0313204		Abandoned
50537	50537-US-PAT	16/004798	2019/0380034		Appealed
50538	50538-US-PCT	17/053053	2021/0144003		Publication of Application
50539	50539-US-PCT	17/045721	2021/0368446		Publication of Application
50539	50539-US-PRV	62/654086			Converted
50540	50540-US-PAT	16/001663	2019/0380019	11070966	Granted
50544	50544-US-PAT	16/035247	2020/0019926		Publication of Application
50565	50565-US-CNT	17/185761	2021/0185508		Publication of Application
50565	50565-US-PAT	15/952846	2019/0268752	10952062	Granted
50565	50565-US-PRV	62/635483			Expired
50573	50573-US-PAT	16/158971	2020/0118130		Allowed (Notice of Allowance)
50576	50576-US-PAT	16/226121	2020/0202005		Publication of Application
50584	50584-US-CNT	16/990367	2020/0374789		Publication of Application
50584	50584-US-PAT	16/010607	2019/0387459	10750435	Granted
50585	50585-US-CNT	16/952496	2021/0076263		Publication of Application
50585	50585-US-PAT	16/276099	2019/0342796	10863385	Granted
50585	50585-US-PRV	62/666983			Converted
50595	50595-US-PAT	16/007703	2019/0384924		Publication of Application
50596	50596-US-PAT	16/250410	2020/0236099		Publication of Application
50599	50599-US-PAT	16/042763	2020/0028812	10666595	Granted
50607	50607-US-PAT	16/176176	2020/0137360		Allowed (Notice of Allowance)
50608	50608-US-PAT	16/030420	2020/0014721		Publication of Application
50612	50612-US-PCT	17/057559	2021/0219122		Publication of Application
50612	50612-US-PRV	62/674464			Converted
50623	50623-US-PAT	16/113306		10491998	Granted
50625	50625-US-PAT	16/210596	2020/0186555	10944773	Granted
50627	50627-US-PAT	16/507537	2021/0012027		Publication of Application
50630	50630-US-PAT	16/143606	2020/0107264	11089546	Granted
50631	50631-US-CNT	16/824900	2020/0221517	10736158	Granted
50631	50631-US-CNT[2]	16/907943	2020/0323001	11116018	Granted

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50631	50631-US-PAT	16/398818	2019/0394814	10616935	Granted
50631	50631-US-PRV	62/688838			Converted
50640	50640-US-PAT	16/138575	2020/0099639	10917372	Granted
50641	50641-US-PAT	16/226050	2020/0201720		Appealed
50650	50650-US-PAT	16/233204	2020/0207308	11180115	Granted
50651	50651-US-PAT	16/582930	2020/0104517	11182494	Granted
50652	50652-US-PAT	16/206110	2020/0178072	11032716	Granted
50654	50654-US-PAT	16/233259	2020/0207306		Publication of Application
50674	50674-US-CNT	16/885746	2020/0344842	11109443	Granted
50674	50674-US-CNT[2]	17/303041	2021/0274592		Publication of Application
50674	50674-US-PAT	16/397606	2020/0344841	10805982	Granted
50680	50680-US-DIV	17/303580	2021/0289424		Publication of Application
50680	50680-US-PAT	16/124847	2020/0084696	11039374	Granted
50684	50684-US-PAT	16/130053	2020/0089978	10810450	Granted
50693	50693-US-PAT	16/403979	2020/0358754		Allowed (Notice of Allowance)
50696	50696-US-PAT	16/279701		10521185	Granted
50697	50697-US-PAT	16/242798	2020/0221262		Publication of Application
50701	50701-US-PAT	16/259266	2020/0244788	10750000	Granted
50703	50703-US-PAT	16/367535		10667057	Granted
50714	50714-US-PCT	17/280750	2021/0343046		Publication of Application
50715	50715-US-PCT	17/280753	17/280753		Publication of Application
50719	50719-US-CNT	16/750963	2020/0205110	10779255	Granted
50719	50719-US-PAT	16/383268	2020/0100202		Publication of Application
50719	50719-US-PRV	62/735958			Converted
50725	50725-US-PAT	16/281783	2020/0275272		Publication of Application
50727	50727-US-PAT	16/221095	2020/0192868		Publication of Application
50730	50730-US-PAT	16/366474	2020/0311643		Publication of Application
50734	50734-US-PAT	16/400338		10754714	Granted
50737	50737-US-PAT	16/388486	2020/0336909		Abandoned Decision
50747	50747-US-PAT	16/221084	2020/0192867	11157448	Granted
50759	50759-US-PAT	16/289718	2020/0280574		Publication of Application
50771	50771-US-PAT	16/360165	2020/0302073		Publication of Application

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50781	50781-US-PAT	16/676835	2020/0229032		Publication of Application
50781	50781-US-PRV	62/791171			Converted
50787	50787-US-PAT	16/891699			Filing
50788	50788-US-PAT	16/910516	2021/0031757		Publication of Application
50792	50792-US-PAT	16/271442	2020/0259650		Publication of Application
50802	50802-US-PAT	16/413773	2020/0366483		Allowed (Notice of Allowance)
50804	50804-US-PAT	16/439138	2020/0394286	11204984	Granted
50811	50811-US-CNT	17/179711	2021/0176807		Publication of Application
50811	50811-US-PAT	16/437874	2020/0396782	10966265	Granted
50813	50813-US-CNT	17/358482	2021/0321225		Publication of Application
50813	50813-US-PAT	16/403138	2020/0351616	11076262	Granted
50816	50816-US-PAT	16/295982	2020/0285774		Publication of Application
50854	50854-US-PAT	16/400691	2020/0351260	11089004	Granted
50877	50877-US-PAT	16/508969	2021/0012020		Publication of Application